



Brunsing Associates, Inc.

July 21, 2005

Project No. 691

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Groundwater Monitoring Report, April 2005

**505 Santa Rosa Avenue
Santa Rosa, California**

Dear Ms. Fleck:

This report presents the results of the groundwater monitoring performed at the Groth Motors site, 505 Santa Rosa Avenue, Santa Rosa, California (Plate 1) by Brunsing Associates, Inc. (BAI). Water level measurements and groundwater sampling were performed on April 13, 2005. This report was prepared to fulfill the monitoring requirements of the North Coast Regional Water Quality Control Board (RWQCB), as outlined in their letter dated December 30, 2002.

Site History

A Phase I Environmental Site Assessment (ESA) report was prepared for the site, as part of a real estate sale. The Phase I ESA found evidence that a gasoline station was formerly located at the site in the early 1950's. No records pertaining to the locations of underground storage tanks (USTs) or whether the USTs had been removed from beneath the site were discovered.

Based on the findings of the Phase I ESA, BAI conducted research regarding the adjacent property and performed a limited site investigation. A records review of the adjacent property located at 421 Santa Rosa Avenue (Plate 2) was performed to assess contamination at the 421 Santa Rosa Avenue site. The records review indicated groundwater contamination was present beneath the 421 Santa Rosa Avenue site and that groundwater flowed towards the northwest.

On August 3, 2000, BAI conducted a limited field investigation that included a geophysical survey and excavation of a trench in an area where a "suspicious" object was located during the geophysical survey. The trench was excavated south of the "suspicious" object because of the presence of an underground electrical line. No USTs were observed in the trench, however, petroleum hydrocarbon odors were observed in the soils removed from the trench. A soil sample was collected from the bottom of the trench and analyzed for total petroleum hydrocarbons (TPH) as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary

butyl ether (MTBE). TPH as gasoline was reported at 42 milligrams per kilogram (mg/kg), and toluene, ethylbenzene, and xylenes were reported at 14 to 44 micrograms per kilogram ($\mu\text{g}/\text{kg}$).

On May 31, 2001, three USTs and the associated fuel lines were removed by John's Excavating. The USTs did not appear to have any obvious holes, however, one of the USTs was almost full of water. Groundwater was not encountered in the excavation. Ms. Joan Fleck of the RWQCB and a City of Santa Rosa Fire Department official were at the site on May 31, 2001, and based on the field observations and photoionization detector (PID) readings, requested that the area be over-excavated to remove as much of the contaminated soil as practical. One confirmation soil sample was collected from the bottom of the overexcavation and four sidewall soil samples were collected for analyses. Approximately 150 cubic yards of soil were excavated and stored onsite in 2 separate 75 cubic yard stockpiles. One 4-point composite soil sample was collected for analyses from each stockpile. The confirmation and stockpile composite soil samples were analyzed for TPH as gasoline, TPH as diesel, BTEX, and MTBE, and for total lead. The final depth of the excavation was approximately 12 feet below ground surface (bgs). Petroleum hydrocarbons were detected in confirmation soil samples collected from two of the sidewalls and from the bottom of the excavation. The results of the tank removals and over-excavation were presented in the BAI document "UST Removal Activities and Overexcavation", dated July 17, 2001.

Three groundwater monitoring wells (MW-1, MW-2, and MW-3; Plate 2) were installed at the site in April 2002. The well installation and initial groundwater sampling were reported in BAI's "Soil and Groundwater Investigation Report", dated August 13, 2002. A quarterly groundwater monitoring program has been conducted at the site since the installation of monitoring wells MW-1, MW-2, and MW-3.

Between March 15 and 17, 2004, BAI supervised the advancement of four soil borings and installation of two groundwater monitoring wells. Soil borings B-1 through B-3 were drilled on-site and soil boring B-4 and monitoring wells MW-4 and MW-5 were drilled off site (Plate 2). The results of the March 2004 drilling activities and groundwater monitoring event were included in the BAI document "Soil and Groundwater Investigation and Groundwater Monitoring Report", dated July 6, 2004.

Monitoring at the site is being coordinated with the monitoring being performed at 421 Santa Rosa Avenue. With the exception of the January 2005 groundwater level measurements, which were collected by BAI, groundwater level measurements and analytical data for the monitoring wells associated with the 421 Santa Rosa Avenue site (wells designated as CMW) are supplied by Clearwater Group Environmental Services (Clearwater), the consultant for 421 Santa Rosa Avenue site.



Water-level Measurements

Depth to water levels in the onsite monitoring wells (MW-1, MW-2, and MW-3) and off-site monitoring wells (MW-4, MW-5), as well as Clearwater monitoring wells (CMW-4 and CMW-5), were measured on April 13, 2005 by BAI personnel. Depth to water measurements in monitoring wells associated with the 421 Santa Rosa Avenue site (CMW-1A, CMW-2A, CMW-4, CMW-5, CMW-6, and CMW-7) were also independently collected on April 13, 2005 by Clearwater personnel.

In comparing the depth to water measurements for wells CMW-4 and CMW-5 collected by BAI and Clearwater, BAI observed a discrepancy in the data. A comparison of the measured depth to water levels in the Clearwater monitoring wells CMW-4 and CMW-5 collected by BAI versus measurements collected by Clearwater indicate differences of 0.08 and 0.02 foot, respectively. A similar discrepancy was observed during the September 2004 and January 2005 groundwater monitoring events. However, since the discrepancy observed for the April 2005 groundwater monitoring event is minimal compared to previously observed differences, for this report, the depth to water measurements collected by Clearwater on April 13, 2005 were used for groundwater flow direction and groundwater gradient calculations.

In the immediate vicinity of the former USTs, the April 13, 2005 predominant groundwater flow direction at 505 Santa Rosa Avenue was toward the northwest. In the vicinity of off site monitoring wells MW-4 and MW-5, the groundwater flow direction was towards the southwest (Plate 3). The predominate groundwater flow direction at the southwest corner of the 421 Santa Rosa Avenue site was towards the southwest while the groundwater flow direction in the northwestern portion of the 421 Santa Rosa Avenue site was towards the west (Plate 3). The April 13, 2005 calculated gradients for 505 and 421 Santa Rosa Avenue ranged from 0.011 to 0.020 foot per foot (ft/ft).

The measured depth to groundwater in the on-site and off-site monitoring wells and off-site Clearwater monitoring wells CMW-4 and CMW-5 have ranged from approximately 2.51 feet below the top of the well casing in December 2002 to approximately 11.45 feet bgs in October 2003. Groundwater flow directions calculated for the 505 Santa Rosa Avenue site have ranged from southwest to north-northwest. A summary of historical groundwater elevations and approximate flow directions is provided in Table 1.

Groundwater Sampling

Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were sampled on April 13, 2005. The monitoring wells were sampled in accordance with the sampling protocol presented in Appendix A. The groundwater monitoring field reports and sampling logs are provided in Appendix B. The April 13, 2005 groundwater samples were analyzed by Alpha Analytical Laboratories, Inc. (Alpha), a California state certified laboratory, for TPH as gasoline, BTEX, petroleum oxygenates, and lead scavengers using EPA Test Method 8260. The analytical results



for monitoring wells CMW-4 and CMW-5 were provided by Clearwater Group Environmental Services.

For the April 13, 2005 sampling event, TPH as gasoline was detected in the samples collected from monitoring wells MW-2, MW-3, and MW-5 at reported concentrations of 28, 2.1 and 46 mg/l, respectively (Table 2). The groundwater sample collected from well MW-2 reportedly contained benzene, ethylbenzene, and xylenes at 110, 1,000, and 3,400 µg/l, respectively. Benzene, ethylbenzene, and xylenes were also reported in the monitoring well MW-5 sample at concentrations of 1,700, 4,600, and 1,100 µg/l, respectively. The groundwater sample collected from monitoring well MW-4 reportedly contained di-isopropyl ether (DIPE) at a concentration of 2.4 µg/l. None of the analytes tested were detected in the MW-1 groundwater sample. A summary of the groundwater analytical results is provided in Table 2 and the well construction details are provided in Table 3.

As indicated by the data provided by Clearwater Group Environmental Services, TPH as gasoline and BTEX were reported in the CMW-4 and CMW-5 groundwater samples. The groundwater sample collected from monitoring well CMW-4 contained TPH as gasoline at 4.1 mg/l and BTEX ranging from 1.3 to 680 µg/l. In addition, MTBE was reported in the CMW-4 sample at 1.3 µg/l. The groundwater sample collected from monitoring well CMW-5 contained TPH as gasoline at 3.5 mg/l and BTEX ranging from 0.95 to 100 µg/l. Furthermore, the Clearwater analytical results indicate groundwater samples collected from monitoring wells CMW-1A, CMW-2A, CMW-6, CMW-7, CMW-8, and CMW-9 also contained petroleum hydrocarbon contamination. The complete analytical laboratory report for the April 13, 2005 MW-1, MW-2, MW-3, MW-4, and MW-5 samples is provided in Appendix C. The data provided electronically by Clearwater via e-mail is included in Appendix D.

Discussion and Recommendations

The analytical results of the April 2005 groundwater sampling event indicate TPH as gasoline concentrations increased in wells MW-2, MW-3 and MW-5 compared to the January 2005 analytical results. In addition, the benzene, ethylbenzene, and xylenes concentrations reported in the April 2005 MW-2 and MW-5 groundwater samples increased compared to the January 2005 analytical results. The analytical results for groundwater samples collected from monitoring well MW-1 were reported as non-detect for all analytes tested for the fifth consecutive quarter.

The groundwater sample collected from monitoring well MW-4 during the April 2005 sampling event reportedly contained DIPE. Historically, DIPE has been reported in three of the five groundwater samples collected from monitoring well MW-4 since the well was installed in March 2004. DIPE has not been detected in any other samples collected from the 505 Santa Rosa Avenue site. However, the groundwater sampling data provided by Clearwater indicates that DIPE was detected in well CMW-4 in 2001.



It is BAI's understanding that the groundwater samples collected from 421 Santa Rosa Avenue site are analyzed for TPH as gasoline, BTEX, and MTBE, whereas the samples associated with the 505 Santa Rosa Avenue site are analyzed for TPH as gasoline, BTEX, petroleum oxygenates and lead scavengers (including MTBE). To date, the source of the groundwater contamination off site (within Sebastopol Avenue, Plate 2) has not been fully identified and is thought to be a co-mingled plume with contamination contribution from the 505 Santa Rosa Avenue site and the 421 Santa Rosa Avenue site. However, the current data available for the two sites may be insufficient in assessing the source(s). In an effort to fully understand the extent of the contamination, it is BAI's opinion that a better understanding as to the source(s) of the groundwater contamination is necessary. DIPE and tertiary butyl alcohol (TBA) have been reported in groundwater samples collected from the 421 Santa Rosa Avenue site. Because the samples collected from the 421 Santa Rosa Avenue site have not been routinely analyzed for these compounds, the extent and source of contamination can not be evaluated. Therefore, BAI recommends that coordinated groundwater monitoring continue to be conducted with the 421 Santa Rosa Avenue site and that all samples collected from both the 505 Santa Rosa Avenue and the 421 Santa Rosa Avenue sites be analyzed for TPH as gasoline, BTEX, and petroleum oxygenates and lead scavengers (including MTBE).

Schedule

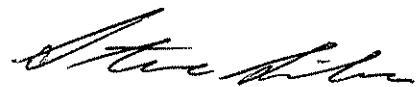
The next quarterly groundwater monitoring was performed on July 13, 2005. During the July 2005 monitoring event, monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were sampled. The results of the July 2005 groundwater monitoring event will be included in a separate groundwater monitoring report after the analytical laboratory report is obtained and reviewed.



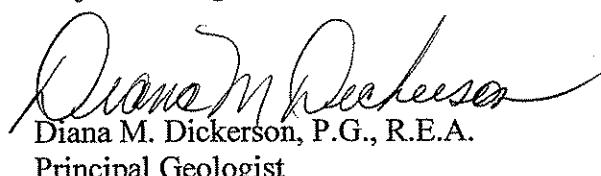
Ms. Joan Fleck
July 21, 2005
Page 6

Should you have any questions regarding this report, please contact us at (707) 838-3027.

Sincerely,



Steve Silva
Project Geologist



Diana M. Dickerson, P.G., R.E.A.
Principal Geologist



cc: Ms. Virginia McNett, c/o McNett et al
Ms. Rosemarie Henninger
Mr. Gary Hursh
Mr. John Groth
Mr. Mark McCormick
Mr. Jim Ho

Attachments:

Table 1 Groundwater Elevation Data
Table 2 Groundwater Analytical Results
Table 3 Well Construction Details

Plate 1 Site Vicinity Map
Plate 2 Site Map
Plate 3 Groundwater Flow Map, April 13, 2005

Appendix A Groundwater Sampling Protocol
Appendix B Groundwater Sampling Field Forms and Logs
Appendix C Analytical Laboratory Report
Appendix D Clearwater Group Environmental Services Data



TABLES





TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Gradient (ft/ft)
MW-1	4/26/2002	158.49	5.94	5.94	152.55	0.00	0.00	152.55	Southwest 0.005
MW-2	4/26/2002	157.60	5.15	5.15	152.45	0.00	0.00	152.45	
MW-3	4/26/2002	158.49	5.64	5.64	152.85	0.00	0.00	152.85	
CMW-4	4/26/2002	156.91	NM	NM					
CMW-5	4/26/2002	157.42	NM	NM					
MW-1	5/6/2002	158.49	6.35	6.35	152.14	0.00	0.00	152.14	
MW-2	5/6/2002	157.60	5.53	5.53	152.07	0.00	0.00	152.07	
MW-3	5/6/2002	158.49	6.02	6.02	152.47	0.00	0.00	152.47	
CMW-4	5/6/2002	156.91	NM	NM					
CMW-5	5/6/2002	157.42	NM	NM					
MW-1	6/27/2002	158.49	8.09	8.09	150.40	0.00	0.00	150.40	
MW-2	6/27/2002	157.60	7.27	7.27	150.33	0.00	0.00	150.33	
MW-3	6/27/2002	158.49	7.75	7.75	150.74	0.00	0.00	150.74	
CMW-4	6/27/2002	156.91	7.09	7.09	149.82	0.00	0.00	149.82	
CMW-5	6/27/2002	157.42	6.95	6.95	150.47	0.00	0.00	150.47	
MW-1	7/30/2002	158.49	9.33	9.33	149.16	0.00	0.00	149.16	
MW-2	7/30/2002	157.60	8.47	8.47	149.13	0.00	0.00	149.13	
MW-3	7/30/2002	158.49	8.93	8.93	149.56	0.00	0.00	149.56	
CMW-4	7/30/2002	156.91	8.22	8.22	148.69	0.00	0.00	148.69	
CMW-5	7/30/2002	157.42	8.08	8.08	149.34	0.00	0.00	149.34	



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MW-1	8/16/2002	158.49	9.81	9.81	148.68	0.00	0.00	148.68	West-Southwest 0.005
MW-2	8/16/2002	157.60	8.96	8.96	148.64	0.00	0.00	148.64	West-Southwest 0.005
MW-3	8/16/2002	158.49	9.39	9.39	149.10	0.00	0.00	149.10	West-Southwest 0.005
CMW-4	8/16/2002	156.91	8.61	8.61	148.30	0.00	0.00	148.30	West-Southwest 0.005
CMW-5	8/16/2002	157.42	8.49	8.49	148.93	0.00	0.00	148.93	West-Southwest 0.005
MW-1	9/10/2002	158.49	10.35	10.35	148.14	0.00	0.00	148.14	Southwest 0.005
MW-2	9/10/2002	157.60	9.41	9.41	148.19	0.00	0.00	148.19	Southwest 0.005
MW-3	9/10/2002	158.49	9.82	9.82	148.67	0.00	0.00	148.67	Southwest 0.005
CMW-4	9/10/2002	156.91	9.05	9.05	147.86	0.00	0.00	147.86	Southwest 0.005
CMW-5	9/10/2002	157.42	8.89	8.89	148.53	0.00	0.00	148.53	Southwest 0.005
MW-1	10/30/2002	158.49	11.45	11.45	147.04	0.00	0.00	147.04	Southwest 0.005
MW-2	10/30/2002	157.60	10.52	10.52	147.08	0.00	0.00	147.08	Southwest 0.005
MW-3	10/30/2002	158.49	10.95	10.95	147.54	0.00	0.00	147.54	Southwest 0.005
CMW-4	10/30/2002	156.91	10.17 ^C	10.17	146.74	0.00	0.00	146.74	Southwest 0.005
CMW-5	10/30/2002	157.42	10.04 ^C	10.04	147.38	0.00	0.00	147.38	Southwest 0.005
MW-1	12/31/2002	158.49	2.93	2.93	155.56	0.00	0.00	155.56	Southwest 0.005
MW-2	12/31/2002	157.60	2.51	2.51	155.09	0.00	0.00	155.09	Southwest 0.005
MW-3	12/31/2002	158.49	3.10	3.10	155.39	0.00	0.00	155.39	Southwest 0.005
CMW-4	12/31/2002	156.91	2.54	2.54	154.37	0.00	0.00	154.37	Southwest 0.005
CMW-5	12/31/2002	157.42	2.51	2.51	154.91	0.00	0.00	154.91	Southwest 0.005



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MW-1	1/8/2003	158.49	4.19	4.19	154.30	0.00	0.00	154.30	505 SRA
MW-2	1/8/2003	157.60	3.52	3.52	154.08	0.00	0.00	154.08	Northwest 0.007
MW-3	1/8/2003	158.49	4.14	4.14	154.35	0.00	0.00	154.35	
CMW-1 ^C	1/8/2003	159.30	5.32	5.32	153.98	0.00	0.00	153.98	
CMW-2 ^C	1/8/2003	158.83	5.04	5.04	153.79	0.00	0.00	153.79	421 SRA
CMW-4 ^C	1/8/2003	156.91	3.44	3.44	153.47	0.00	0.00	153.47	Northwest 0.019
CMW-5 ^C	1/8/2003	157.42	3.35	3.35	154.07	0.00	0.00	154.07	
CMW-6 ^C	1/8/2003	158.95	4.97	4.97	153.98	0.00	0.00	153.98	
CMW-7 ^C	1/8/2003	159.58	7.26	7.26	152.32	0.00	0.00	152.32	
MW-1	2/7/2003	158.49	4.88	4.88	153.61	0.00	0.00	153.61	
MW-2	2/7/2003	157.60	4.13	4.13	153.47	0.00	0.00	153.47	
MW-3	2/7/2003	158.49	4.69	4.69	153.80	0.00	0.00	153.80	
CMW-4	2/7/2003	156.91	3.90	3.90	153.01	0.00	0.00	153.01	
CMW-5	2/7/2003	157.42	3.85	3.85	153.57	0.00	0.00	153.57	
MW-1	3/10/2003	158.49	5.45	5.45	153.04	0.00	0.00	153.04	
MW-2	3/10/2003	157.60	4.63	4.63	152.97	0.00	0.00	152.97	Northwest 0.006
MW-3	3/10/2003	158.49	5.16	5.16	153.33	0.00	0.00	153.33	
CMW-4	3/10/2003	156.91	4.40	4.40	152.51	0.00	0.00	152.51	
CMW-5	3/10/2003	157.42	4.38	4.38	153.04	0.00	0.00	153.04	



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MW-1	4/9/2003	158.49	5.27	5.27	153.22	0.00	0.00	153.22	505 SRA North-Northwest 0.010
MW-2	4/9/2003	157.60	4.43	4.43	153.17	0.00	0.00	153.17	
MW-3	4/9/2003	158.49	4.99	4.99	153.50	0.00	0.00	153.50	
CMW-1 ^C	4/9/2003	159.30	6.40	6.40	152.90	0.00	0.00	152.90	
CMW-2 ^C	4/9/2003	158.83	6.40	6.40	152.43	0.00	0.00	152.43	
CMW-4 ^C	4/9/2003	156.91	4.30	4.30	152.61	0.00	0.00	152.61	421 SRA Northwest 0.026
CMW-5 ^C	4/9/2003	157.42	4.35	4.35	153.07	0.00	0.00	153.07	
CMW-6 ^C	4/9/2003	158.95	6.05	6.05	152.90	0.00	0.00	152.90	
CMW-7 ^C	4/9/2003	159.58	8.85	8.85	150.73	0.00	0.00	150.73	
MW-1	7/9/2003	158.49	7.45	7.45	151.04	0.00	0.00	151.04	505 SRA Northwest 0.009
MW-2	7/9/2003	157.60	6.51	6.51	151.09	0.00	0.00	151.09	
MW-3	7/9/2003	158.49	7.15	7.15	151.34	0.00	0.00	151.34	
CMW-1 ^C	7/9/2003	159.30	7.36	7.36	151.94	0.00	0.00	151.94	
CMW-2 ^C	7/9/2003	158.83	8.48	8.48	150.35	0.00	0.00	150.35	421 SRA Northwest 0.042
CMW-4 ^C	7/9/2003	156.91	6.47	6.47	150.48	0.00	0.00	150.48	
CMW-5 ^C	7/9/2003	157.42	6.45	6.45	150.97	0.00	0.00	150.97	
CMW-6 ^C	7/9/2003	158.95	8.02	8.02	150.93	0.00	0.00	150.93	
CMW-7 ^C	7/9/2003	159.58	10.77	10.77	148.81	0.00	0.00	148.81	



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							Hydraulic Potential ^B (feet, MSL)	Hydraulic Potential (feet)	
MW-1	10/9/2003	158.49	10.73	10.73	147.76	0.00	0.00	147.76	505 SRA
MW-2	10/9/2003	157.60	9.92	9.92	147.68	0.00	0.00	147.68	Northwest 0.008
MW-3	10/9/2003	158.49	10.31	10.31	148.18	0.00	0.00	148.18	
CMW-1A ^C	10/9/2003	159.30	11.22	11.22	148.08	0.00	0.00	148.08	
CMW-2A ^C	10/9/2003	158.83	11.66	11.66	147.17	0.00	0.00	147.17	421 SRA
CMW-4 ^C	10/9/2003	156.91	9.59	9.59	147.32	0.00	0.00	147.32	Northwest 0.023
CMW-5 ^C	10/9/2003	157.42	9.60	9.60	147.82	0.00	0.00	147.82	
CMW-6 ^C	10/9/2003	158.95	10.89	10.89	148.06	0.00	0.00	148.06	
CMW-7 ^C	10/9/2003	159.58	13.50	13.50	146.08	0.00	0.00	146.08	
MW-1	1/8/2004	158.49	3.75	3.75	154.74	0.00	0.00	154.74	505 SRA
MW-2	1/8/2004	157.60	3.18	3.18	154.42	0.00	0.00	154.42	North-northwest 0.097
MW-3	1/8/2004	158.49	3.85	3.85	154.64	0.00	0.00	154.64	
CMW-1A ^C	1/8/2004	159.30	5.00	5.00	154.30	0.00	0.00	154.30	
CMW-2A ^C	1/8/2004	158.83	5.30	5.30	153.53	0.00	0.00	153.53	421 SRA
CMW-4 ^C	1/8/2004	156.91	6.35	6.35	150.56	0.00	0.00	150.56	West 0.026
CMW-5 ^C	1/8/2004	157.42	6.20	6.20	151.22	0.00	0.00	151.22	
CMW-6 ^C	1/8/2004	158.95	4.50	4.50	154.45	0.00	0.00	154.45	
CMW-7 ^C	1/8/2004	159.58	7.36	7.36	152.22	0.00	0.00	152.22	



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Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Gradient (ft/ft)
MW-1	3/30/2004	158.49	5.14	5.14	153.35	0.00	0.00	153.35	505 SRA
MW-2	3/30/2004	157.60	4.33	4.33	153.27	0.00	0.00	153.27	Northwest to Southwest
MW-3	3/30/2004	158.49	4.90	4.90	153.59	0.00	0.00	153.59	0.007 to 0.008
MW-4	3/30/2004	156.49	4.35	4.35	152.14	0.00	0.00	152.14	
MW-5	3/30/2004	156.77	4.17	4.17	152.60	0.00	0.00	152.60	
CMW-1A ^C	3/30/2004	159.30	NM						
CMW-2A ^C	3/30/2004	158.83	NM						
CMW-4	3/30/2004	156.91	4.10	4.10	152.81	0.00	0.00	152.81	
CMW-5	3/30/2004	157.42	4.19	4.18	153.24	0.00	0.00	153.24	
CMW-6 ^C	3/30/2004	158.95	NM						
CMW-7 ^C	3/30/2004	159.58	NM						
MW-1	4/9/2004	158.49	5.85	5.85	152.64	0.00	0.00	152.64	505 SRA
MW-2	4/9/2004	157.60	5.05	5.05	152.55	0.00	0.00	152.55	Northwest to Southwest
MW-3	4/9/2004	158.49	5.52	5.52	152.97	0.00	0.00	152.97	0.005 to 0.011
MW-4	4/9/2004	156.49	5.07	5.07	151.42	0.00	0.00	151.42	
MW-5	4/9/2004	156.77	4.99	4.99	151.78	0.00	0.00	151.78	
CMW-1A ^C	4/9/2004	159.30	6.62	6.62	152.68	0.00	0.00	152.68	421 SRA
CMW-2A ^C	4/9/2004	158.83	6.63	6.63	152.20	0.00	0.00	152.20	
CMW-4 ^C	4/9/2004	156.91	5.06	5.06	151.85	0.00	0.00	151.85	North-northwest to Southwest
CMW-5 ^C	4/9/2004	157.42	4.98	4.98	152.44	0.00	0.00	152.44	0.006
CMW-6 ^C	4/9/2004	158.95	6.42	6.42	152.53	0.00	0.00	152.53	
CMW-7 ^C	4/9/2004	159.58	NM						

Table 1. Groundwater Elevation Data

TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing, Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)		Predominant Groundwater Flow Direction and Gradient (ft/ft)
							Hydraulic Potential ^B (feet, MSI)	Free Product (Factor of 0.76) ^A (feet)	
MW-1	7/9/2004	158.49	9.37	9.37	149.12	0.00	0.00	0.00	505 SRA Northwest 0.011
MW-2	7/9/2004	157.60	8.51	8.51	149.09	0.00	0.00	0.00	149.43
MW-3	7/9/2004	158.49	9.06	9.06	149.43	0.00	0.00	0.00	148.65
MW-4	7/9/2004	156.49	7.84	7.84	148.65	0.00	0.00	0.00	148.22
MW-5	7/9/2004	156.77	8.55	8.55	148.22	0.00	0.00	0.00	148.55
CMW-4 ^D	7/9/2004	156.91	8.36	8.36	148.55	0.00	0.00	0.00	149.05
CMW-5 ^D	7/9/2004	157.42	8.37	8.37	149.05	0.00	0.00	0.00	149.25
CMW-1A ^E	6/24/2004	159.30	10.05	10.05	149.25	0.00	0.00	0.00	421 SRA Not Calculated
CMW-2A ^E	6/24/2004	158.83	NM	NM					
CMW-4 ^E	6/24/2004	156.91	7.75	7.75	149.16	0.00	0.00	0.00	149.16
CMW-5 ^E	6/24/2004	157.42	7.85	7.85	149.57	0.00	0.00	0.00	149.57
CMW-6 ^E	6/24/2004	158.95	9.33	9.33	149.62	0.00	0.00	0.00	149.62
CMW-7 ^E	6/24/2004	159.58	11.91	11.91	147.67	0.00	0.00	0.00	147.67
MW-1	9/16/2004	158.49	11.05	11.05	147.44	0.00	0.00	0.00	147.44
MW-2	9/16/2004	157.60	10.31	10.31	147.29	0.00	0.00	0.00	147.29
MW-3	9/16/2004	158.49	10.63	10.63	147.86	0.00	0.00	0.00	147.86
MW-4	9/16/2004	156.49	9.53	9.53	146.96	0.00	0.00	0.00	146.96
MW-5	9/16/2004	156.77	10.13	10.13	146.64	0.00	0.00	0.00	146.64
CMW-1A ^E	9/16/2004	159.30	11.67 ^F	11.67 ^F	147.63	0.00	0.00	0.00	147.63
CMW-2A ^E	9/16/2004	158.83	12.07 ^F	12.07 ^F	146.76	0.00	0.00	0.00	146.76
CMW-4 ^E	9/16/2004	156.91	9.94 ^F	9.94 ^F	146.97	0.00	0.00	0.00	146.97
CMW-5 ^E	9/16/2004	157.42	9.91 ^F	9.91 ^F	147.51	0.00	0.00	0.00	147.51
CMW-6 ^E	9/16/2004	158.95	11.18 ^F	11.18 ^F	147.77	0.00	0.00	0.00	147.77
CMW-7 ^E	9/16/2004	159.58	13.87 ^F	13.87 ^F	145.71	0.00	0.00	0.00	145.71

Table 1. Groundwater Elevation Data





TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Measured	Top of Casing Elevation (feet, MSL)	Depth to Fluid/Air Interface (feet)	Depth to Product/Water Interface (feet)	Elevation of Groundwater Uncorrected (feet, MSL)	Floating Product Thickness (feet)	Correction for Free Product (Factor of 0.76) ^A (feet)	Hydraulic Potential ^B (feet, MSL)	Predominant Groundwater Flow Direction and Gradient (ft/ft)
MW-1	1/13/2005	158.49	3.40	3.40	155.09	0.00	0.00	155.09	505 SRA Northwest 0.018
MW-2	1/13/2005	157.60	2.93	2.93	154.67	0.00	0.00	154.67	505 SRA Northwest 0.018
MW-3	1/13/2005	158.49	3.67	3.67	154.82	0.00	0.00	154.82	505 SRA Northwest 0.018
MW-4	1/13/2005	156.49	3.31	3.31	153.18	0.00	0.00	153.18	505 SRA Northwest 0.018
MW-5	1/13/2005	156.77	3.40	3.40	153.37	0.00	0.00	153.37	505 SRA Northwest 0.018
CMW-1A ^D	1/13/2005	159.30	4.91	4.91	154.39	0.00	0.00	154.39	421 SRA North to West 0.013 to 0.018
CMW-2A ^D	1/13/2005	158.83	4.92	4.92	153.91	0.00	0.00	153.91	421 SRA North to West 0.013 to 0.018
CMW-4 ^D	1/16/2005	156.91	2.98	2.98	153.93	0.00	0.00	153.93	421 SRA North to West 0.013 to 0.018
CMW-5 ^D	1/13/2005	157.42	3.20	3.20	154.22	0.00	0.00	154.22	421 SRA North to West 0.013 to 0.018
CMW-6 ^D	1/13/2005	158.95	4.28	4.28	154.67	0.00	0.00	154.67	421 SRA North to West 0.013 to 0.018
CMW-7 ^D	1/13/2005	159.58	6.63	6.63	152.95	0.00	0.00	152.95	421 SRA North to West 0.013 to 0.018
MW-1	4/13/2005	158.49	4.39	4.39	154.10	0.00	0.00	154.10	505 SRA Northwest 0.018
MW-2	4/13/2005	157.60	3.76	3.76	153.84	0.00	0.00	153.84	505 SRA Northwest 0.018
MW-3	4/13/2005	158.49	4.35	4.35	154.14	0.00	0.00	154.14	505 SRA Northwest 0.018
MW-4	4/13/2005	156.49	4.12	4.12	152.37	0.00	0.00	152.37	505 SRA Northwest 0.018
MW-5	4/13/2005	156.77	3.74	3.74	153.03	0.00	0.00	153.03	505 SRA Northwest 0.018
CMW-1A ^E	4/13/2005	159.30	5.73	5.73	153.57	0.00	0.00	153.57	421 SRA North to West 0.013 to 0.018
CMW-2A ^E	4/13/2005	158.83	5.21	5.21	153.62	0.00	0.00	153.62	421 SRA North to West 0.013 to 0.018
CMW-4 ^E	4/13/2005	156.91	3.67	3.67	153.24	0.00	0.00	153.24	421 SRA North to West 0.013 to 0.018
CMW-5 ^E	4/13/2005	157.42	3.74	3.74	153.68	0.00	0.00	153.68	421 SRA North to West 0.013 to 0.018
CMW-6 ^E	4/13/2005	158.95	5.36	5.36	153.59	0.00	0.00	153.59	421 SRA North to West 0.013 to 0.018
CMW-7 ^E	4/13/2005	159.58	7.74	7.74	151.84	0.00	0.00	151.84	421 SRA North to West 0.013 to 0.018

Table 1. Groundwater Elevation Data



TABLE 1
Groundwater Elevation Data
505 Santa Rosa Avenue
Santa Rosa, California

Footnotes:

MSL = mean sea level

ft/ft = foot per foot

SRA = Santa Rosa Avenue

NM = not measured

A = Factor is equal to the density of gasoline (0.76 grams per cubic centimeter) divided by the density of groundwater

(0.998 grams per cubic centimeter), as measured at the site.

B = Hydraulic potential is equal to the floating product thickness times the correction factor (0.76), plus the elevation of groundwater uncorrected.

C = Data provided by Clearwater Group Environmental Services (Clearwater)

D = Data collected by Brunsing Associates, Inc.

E = Data provided electronically by Clearwater Group Environmental Services

F = Depth to groundwater for CMW wells corrected by subtracting 1.1 foot from measurement provided by Clearwater

F = Depth to groundwater for CMW wells corrected by subtracting 1.1 foot from measurement provided by Clearwater
(see text in the BAI document "Groundwater Monitoring Report, September 2004", dated November 30, 2004)

Wells CMW-1 through CMW-7 are part of investigation at 421 Santa Rosa Avenue



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE A (µg/l)	Depth to Water (feet)
MW-1	4/26/2002	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	5.94
MW-1	7/30/2002	< 0.05	< 0.50	< 0.50	1.57	< 0.50	< 1.0	9.33
MW-1	11/5/2002	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	11.45
MW-1	1/8/2003	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	4.19
MW-1	4/9/2003	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	5.27
MW-1	7/9/2003	< 0.050	< 0.50	< 0.50	2.30	< 0.50	< 1.0	7.45
MW-1	10/9/2003	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	10.73
MW-1 C	1/8/2004	< 0.050	< 0.30	< 0.30	0.73	< 0.50	< 0.50	3.75
MW-1	3/30/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	5.14
MW-1	7/9/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	9.37
MW-1	9/16/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	11.05
MW-1	1/13/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.40
MW-1	4/13/2005	< 0.050	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50	4.39
MW-2	4/26/2002	33	186	72.5	1,100	6,680	< 50	5.15
MW-2	7/30/2002	36	134	< 50	1,170	5,010	< 100	8.47
MW-2	11/5/2002	21	71.7	18.6	1,280	3,460	< 20	10.53
MW-2	1/8/2003	20	159	21.3	538	4,240	< 20	3.52
MW-2	4/9/2003	14	125	19.8	607	2,590	< 20	4.43
MW-2	7/9/2003	19	130	26.3	921	3,130	< 20	6.51
MW-2	10/9/2003	23	64.6	15.2	1,220	3,900	< 20	9.92



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
MW-2 ^C	1/8/2004	< 0.050	170	32	400	4,500	< 50	3.18
MW-2	3/30/2004	11	87.3	15.3	380	2,970	< 20	4.33
MW-2	7/9/2004	13	65.7	11.5	1,140	2,950	< 20	8.51
MW-2	9/16/2004	8.1	43.7	< 10	705	1,650	< 20	10.31
MW-2	1/13/2005	11	88.6	< 10	590	3,100	< 20	2.93
MW-2	4/13/2005	28	110	< 30	1,000	3,400	< 50	3.76
MW-3	4/26/2002	8.3	< 25	< 25	< 25	25.3	< 50	5.64
MW-3	7/30/2002	17	< 50	< 50	< 50	< 50	< 100	8.93
MW-3	11/5/2002	24	< 10	< 10	< 10	85.3	< 20	10.95
MW-3	1/8/2003	5.3	< 10	< 10	< 10	34.8	< 20	4.14
MW-3	7/9/2003	5.2	< 5.0	< 5.0	6.67	25.2	< 10	7.15
MW-3	10/9/2003	7.5	< 5.0	< 5.0	< 5.0	< 5.0	< 10	10.31
MW-3 ^C	1/8/2004	22	180	34	540	5,200	< 50	3.85
MW-3	3/30/2004	3.0	< 5.0	< 5.0	< 5.0	19.6	< 10	4.90
MW-3	7/9/2004	3.4	< 5.0	< 5.0	7.47	18.2	< 10	9.06
MW-3	9/16/2004	4.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	10.63
MW-3	1/13/2005	1.4	< 5.0	< 5.0	< 5.0	9.36	< 10	3.67
MW-3	4/13/2005	2.1	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50	4.35
MW-4	3/30/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	4.35
MW-4	7/9/2004	< 0.050	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0 ^D	7.84
MW-4	9/16/2004	< 0.050	< 0.50	< 0.50	< 0.50	0.77	< 1.0 ^E	9.53
MW-4	1/13/2005	< 0.05	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	3.31
MW-4	4/13/2005	< 0.050	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50 ^H	4.12



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
MW-5	3/30/2004	25	1,170	<50	2,660	4,080	<100	4.17
MW-5	7/9/2004	53	3,650	<50	6,100	4,140	<100	8.55
MW-5	9/16/2004	28	2,520	<50	4,710	2,990	<100	10.13
MW-5	1/13/2005	9.7	755	<50	1,350	524	<100	3.40
MW-5	4/13/2005	46	1,700	<30	4,600	1,100	<50	3.74
CMW-4 ^B	4/26/2002	14	1,400	200	450	1,000	0.95	5.03
CMW-4 ^B	7/30/2002	16	2,800	180	390	1,100	0.1	8.26
CMW-4 ^B	11/5/2002	12	2,700	45	150	87	<10	10.17
CMW-4 ^B	1/8/2003	3.9	570	47	120	240	<2.5	3.44
CMW-4 ^B	4/9/2003	12	1,100	95	290	460	<5.0	4.30
CMW-4 ^B	7/9/2003	14	1,600	93	290	480	<10	6.47
CMW-4 ^B	10/9/2003	12	2,300	49	180	170	<5.0	9.59
CMW-4 ^B	1/8/2004	4.4	570	39	120	210	<3.0	6.35
CMW-4 ^B	4/9/2004	11	1,700	97	270	500	<2.5	5.06
CMW-4 ^B	6/24/2004	8.5	1,500	52	160	220	<5.0	7.75
CMW-4 ^B	9/16/2004	8.5	1,700	28	79	68	<5.0 ^G	9.94 ^F
CMW-4 ^B	1/13/2005	2.9	330	17	60	88	1.4	2.98
CMW-4 ^B	4/13/2005	4.1	680	34	85	71	1.3	3.67
CMW-5 ^B	4/26/2002	6.5	16	29	160	530	<2.0	4.93
CMW-5 ^B	7/30/2002	4.3	38	10	120	250	<1.0	8.13
CMW-5 ^B	11/5/2002	3.8	130	8.4	60	80	0.81	10.04



TABLE 2
Groundwater Analytical Results
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)	Depth to Water (feet)
CMW-5 ^B	1/8/2003	6.0	9.8	24	130	410	< 1.0	3.35
CMW-5 ^B	4/9/2003	12	< 5.0	24	310	1,000	< 5.0	4.35
CMW-5 ^B	7/9/2003	3.2	31	5.9	35	50	< 0.50	6.45
CMW-5 ^B	10/9/2003	3.1	40	4.6	22	36	0.90	9.60
CMW-5 ^B	1/8/2004	4.6	4	12.0	100	270	0.51	6.20
CMW-5 ^B	4/9/2004	3.7	8.2	5.3	22	34	0.53	4.98
CMW-5 ^B	6/24/2004	3.9	14.0	4.2	44	85	0.86	7.85
CMW-5 ^B	9/16/2004	2.3	19.0	2.4	8	12	0.97 ^C	9.91 ^F
CMW-5 ^B	1/13/2005	2.4	0.5	2.8	32	68	< 0.50	3.20
CMW-5 ^B	4/13/2005	3.5	0.95	2.0	51	100	< 0.50	3.74

mg/l = milligrams per liter

µg/l = micrograms per

Less than symbol (<) indicates not detected at given laboratory reporting limit

A = Sample analyzed for petroleum oxygenates and lead scavengers using EPA Test Method 8260B with the exception of samples collected from wells CMW-4 and CMW-5. All analytes detected are listed.

B = Data for wells CMW-4 and CMW-5 provided by Clearwater Group Environmental Services.

C = Reported analytical results for groundwater samples collected on 1/8/2004 from wells MW-1, MW-2, and MW-3 may be accurate due to possible mislabeling and/or sample carryover

D = Di-isopropyl ether (DIPE) reported at 1.50 µg/l

E = Di-isopropyl ether (DIPE) reported at 2.23 µg/l

F = Depth to groundwater for CMW wells corrected by 1.1 foot
 (see text in the BAI document "Groundwater Monitoring Report, September 2004", dated November 12, 2004)

G = Clearwater September 2004 groundwater samples analyzed for petroleum oxygenates and lead scavengers using EPA Test Method 8260
 H = Di-isopropyl ether (DIPE) reported at 2.4 µg/l



TABLE 3
Well Construction Details
505 Santa Rosa Avenue
Santa Rosa, California

Well Number	Date Installed	Installed by	Borehole Diameter (inches)	Total Borehole Depth (feet, bgs)	Screened Interval (feet, bgs)	Total Well Depth (feet, bgs)	Casing Diameter (inches)	Screen Slot Size (inches)	PVC Casing Elevation (feet, MSL)	Existing or Abandoned
MW-1	4/15/2002	BAI	8	20	5 to 20	20	2	0.010	158.49	Existing
MW-2	4/15/2002	BAI	8	20	5 to 20	20	2	0.010	157.60	Existing
MW-3	4/15/2002	BAI	8	20	5 to 20	20	2	0.010	158.49	Existing
MW-4	3/16/2004	BAI	8	15	5 to 15	15	2	0.010	156.49	Existing
MW-5	3/16/2004	BAI	8	15	5 to 15	15	2	0.010	156.77	Existing

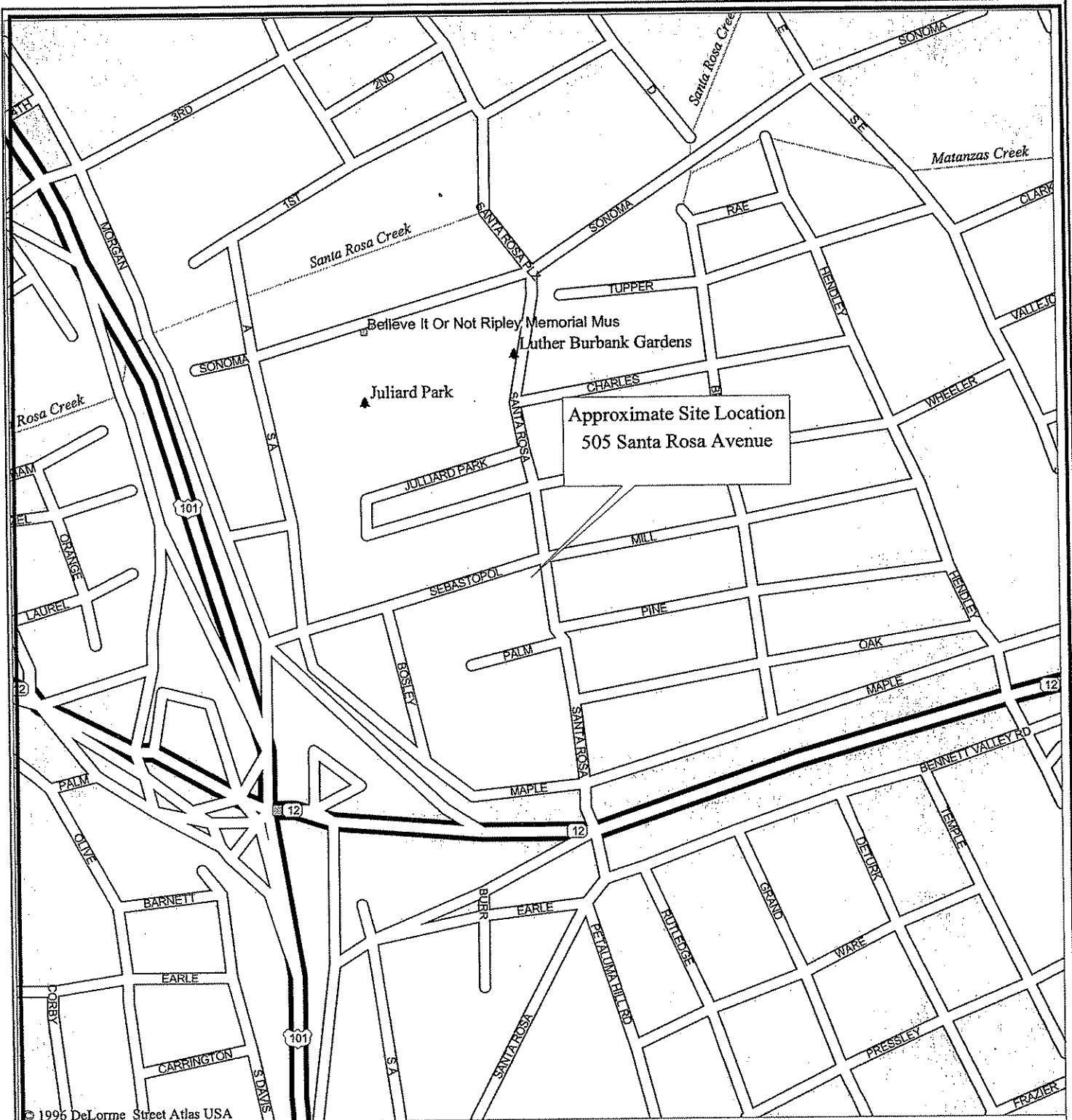
BAI = Brunsing Associates, Inc.

MSL = mean sea level

bgs = below ground surface

PLATES





Mag 16.00

Fri Feb 20 13:34 2004

Scale 1:6,250 (at center)

500 Feet

200 Meters

— Secondary SR/Road/Hwy Ramp

— Interstate/Limited Access

■ Point of Interest



PROJECT NO.: 691

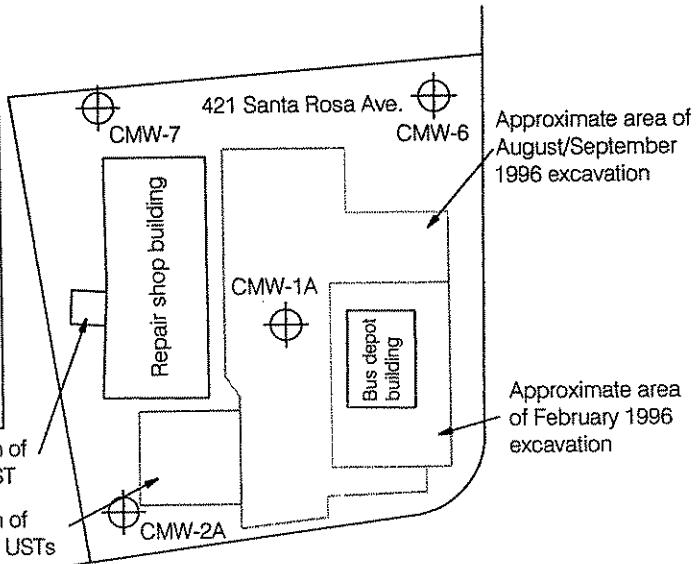
DRAWN BY:	SMS	2/20/04
CHECKED BY:		
APPROVED BY:	OMP	7/6/04
REVISED:		

Brunsing Associates, Inc.
P.O. Box 588
Windsor, California 95492

PLATE 1
Site Vicinity Map
505 Santa Rosa Avenue
Santa Rosa, California

LEGEND

- MW-1 Monitoring well location and number
- B-2 Soil boring location and number
- CMW-4 Clearwater monitoring well location and number
- Approximate excavation limits for 421 Santa Rosa Avenue site



Sebastopol Avenue

MW-4

CMW-4

MW-5

MW-2

MW-1

Office

Shop

Parking Lot



APPROXIMATE SCALE (FEET)



Reference:
Ray Carlson & Associates, May 10, 2002

Data for 421 Santa Rosa Avenue from GPI
Environmental Management report dated
November 11, 1996



Brunzing Associates, Inc.
5803 Skylane Blvd., Suite A
Windsor, California 95492
Tel: (707) 838-3027

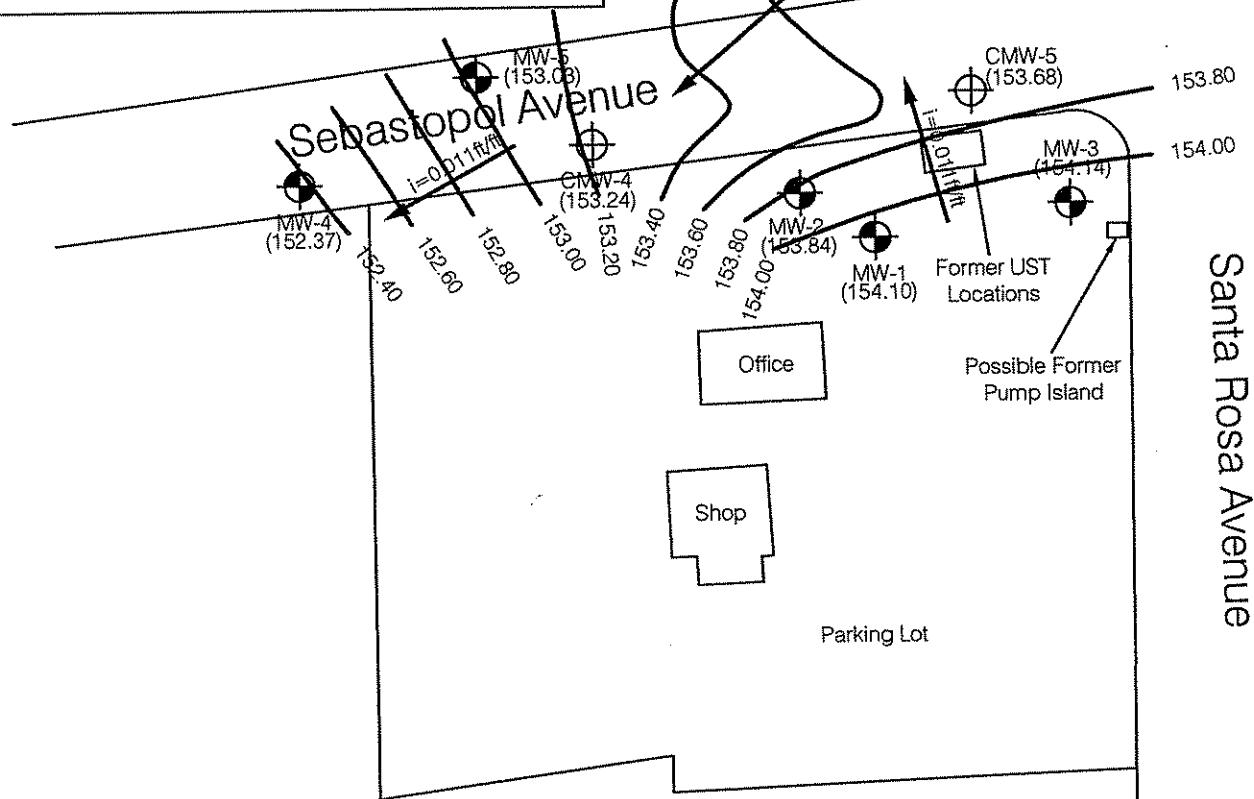
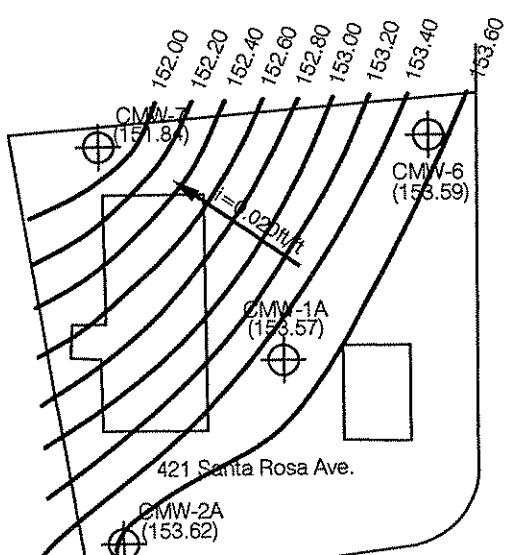
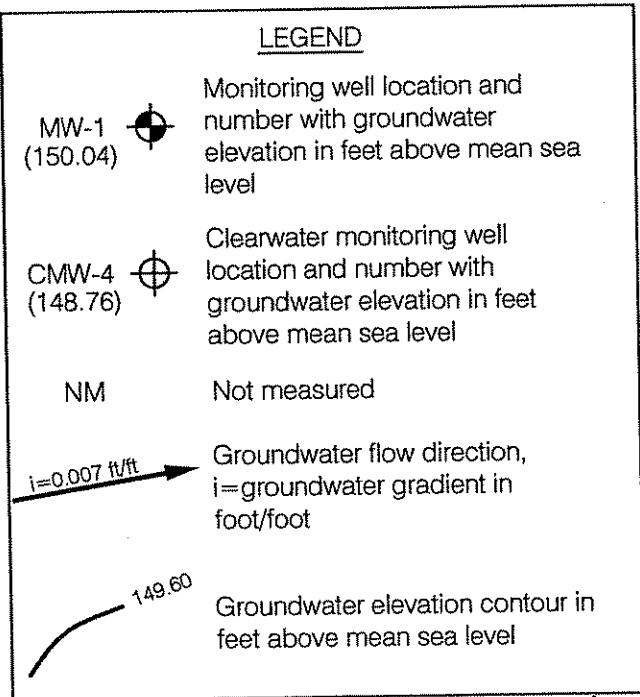
Job No.: 691

Appr.: *DMK*
Date: 3/8/05

SITE MAP
505 Santa Rosa Avenue
Santa Rosa, California

PLATE

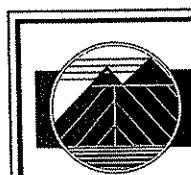
2



APPROXIMATE SCALE (FEET)



Reference:
Clearwater well locations and data from Clearwater Group
Ray Carlson & Associates, May 10, 2002



Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

Job No.: 691
Appr.:
Date: 06/07/05

GROUNDWATER FLOW MAP
APRIL 13, 2005
505 Santa Rosa Avenue
Santa Rosa, California

PLATE
3

APPENDIX A

Groundwater Sampling Protocol



Groundwater Sampling Protocol

Monitoring Wells

Prior to purging a monitoring well, groundwater levels are measured with a Solinst electric depth measurement device, or an interface probe, in all wells that are to be measured. At sites where petroleum hydrocarbons are possible contaminants, the well is checked for floating product using a clear bailer, a steel tape with water/oil paste, or an interface probe, during the initial sampling round. If floating product is measured during the initial sampling round or noted during subsequent sampling rounds, floating product measurements are continued.

After the water level and floating product measurements are complete, the monitoring well is purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water become relatively stable. If the well is purged dry, groundwater samples are collected after the water level in the well recovers to at least 80 percent of the original water column measured in the well prior to sampling, or following a maximum recovery period of two hours. The well is purged using a factory-sealed, disposable, polyethylene bailer, a four-inch diameter submersible Grundfos pump, a two-inch diameter ES-40 purge pump, or a peristaltic pump. The purge water is stored on-site in clean, 55-gallon drums.

A groundwater sample is collected from each monitoring well following re-equilibration of the well after purging. The groundwater sample is collected using a factory-sealed disposable, polyethylene bailer with a sampling port, or a factory-sealed Teflon bailer. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the polyethylene bailer sampling port when collecting samples to be analyzed for VOCs. The groundwater sample is transferred from the bailer into sample container(s) that are obtained directly from the analytical laboratory.

The sample container(s) is labeled with a self-adhesive tag. The following information is included on the tag:

- Project number
- Sample number
- Date and time sample is collected
- Initials of sample collector(s).



Individual log sheets are maintained throughout the sampling operations. The following information is recorded:

- Sample number
- Date and time well sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

Following collection of the groundwater sample, the sample is immediately stored on blue ice in an appropriate container. A chain-of-custody form is completed with the following information:

- Date the sample was collected
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the chain-of-custody form accompanies the sample containers to a California-certified laboratory. A copy is retained by BAI and placed in company files.

Sampling equipment including thermometers, pH electrodes, and conductivity probes are cleaned both before and after their use at the site. The following cleaning procedures are used:

- Wash with a potable water and detergent solution or other solutions deemed appropriate
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

In addition, the pumps are cleaned by pumping a potable water and detergent solution and deionized water through the system. Cleaning solutions are contained on-site in clean 55-gallon drums.

Domestic and Irrigation Wells

Groundwater samples collected from domestic or irrigation wells are collected from the spigot that is the closest to the well. Prior to collecting the sample, the spigot is allowed to flow for at least 5 minutes to purge the well. The sample is then collected directly into laboratory-supplied containers, sealed, labeled, and stored on blue ice in an appropriate container, as described above. A chain-of-custody form is completed and submitted with the samples to the analytical laboratory.



APPENDIX B

Groundwater Sampling Field Forms and Logs



UST Yes
 Fund Site: No

FIELD REPORT

PAGE 1 OF 7

JOB NO: 691 PROJECT: Groth Motors - 505 Santa Rosa Ave, Santa Rosa, CA

INITIAL: GDS SUBJECT: GROUNDWATER SAMPLING

DATE: 4-13-05 PROJECT PHASE NUMBER: 04

VEHICLE USED: FORD F-150

Total Time: 8.25

End. Mileage: 9840

Beg. Mileage: 9819

TOTAL MILEAGE: 21

TIME	DESCRIPTION OF WORK AND CONVERSATION RECORD				
0715	LOAD EQUIPMENT AND SUPPLIES.				
0752	TO SITE				
0819	ARRIVE AT SITE. SET-UP FOR GROUNDWATER SAMPLING. MEASURED TWO ROUNDS OF DISTANCE TO WATER OR UNTIL WELLS EQUILIBRATED AT WELLS MW-1, MW-2, MW-3, MW-4, MW-5, CMW-4 AND CMW-5. PERFORMED SAMPLING AT WELLS MW-1, MW-2, MW-3, MW-4 AND MW-5. STORED PURGEWATER IN DRUMS LOCATED NORTHWEST OF THE SHOP BUILDING. CLOSED ALL WELLS AND MONUMENTS (NOTE: SURFACE MONUMENT AT MW-4 IS NOT SECURE, TRAFFIC HAS CAUSED THE CONCRETE TO FAIL, NEEDS REPLACEMENT). DECON SAMPLING EQUIPMENT.				
	LOAD EQUIPMENT AND SUPPLIES.				
	COMPLETED FIELD NOTES AND LOGGED SAMPLES ON CHAIN OF CUSTODY.				
1349	LEAVE SITE				
1420	ARRIVE AT OFFICE. SUBMITTED SAMPLES FOR ANALYSIS.				
	UNLOAD EQUIPMENT AND SUPPLIES.				
1529	FINISHED WITH WORK.				
	<p style="text-align: right;">DRUM COUNT:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Water = 3</td> <td style="width: 50%;">Devlpmt Water =</td> </tr> <tr> <td>Soil =</td> <td>Decon Water =</td> </tr> </table>	Water = 3	Devlpmt Water =	Soil =	Decon Water =
Water = 3	Devlpmt Water =				
Soil =	Decon Water =				



WATER LÉVELS

SHEET 2 OF 7

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA

PROJECT NUMBER: 691

INSTRUMENT TYPE: ET (wcp)

INITIALS: CDS

DATE: 4-13-85

BRUNSWICK ASSOCIATES, INC.
ENVIRONMENTAL DIVISION

WELL SAMPLING

SHEET 3 OF 7

PROJECT: Groth

PROJECT NUMBER: 691.01

WELL# MW-1 PRECIP. IN LAST 5 DAYS: — WIND ✓

DATE: 4-13-05

STARTING TIME: 1022 FINISHING TIME: 1055

INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 20.00 - D.T.W. 4.39 = H2O COLUMN: 15.61 CONV.= 7.81

GALLONS

4" WELL DEPTH: [] - D.T.W. [] = H2O COLUMN: [] CONV.= []

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL []

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1032	1	6.75	635	19.7	TURBID Brown, NO odour, SANDY
1036	4	6.78	655	19.5	TURBID Brown, NO odour, SANDY
1042	8	6.76	656	20.2	TURBID Brown, NO odour, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-GAS [] EPA-8260 []

SAMPLE TIME: 1050 DID WELL GO DRY? NO

WATER LEVELS:

NOTES:

TIME D.T.W.

1053 7.00

**BRUNSWICK ASSOCIATES, INC.
ENVIRONMENTAL DIVISION**

WELL SAMPLING

SHEET 4 OF 1

PROJECT: Groth

PROJECT NUMBER: 691.01

WELL# MW-2 PRECIP. IN LAST 5 DAYS: 1 WIND ✓ DATE: 4-13-05

STARTING TIME: 1056 FINISHING TIME: 1134 INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 20.00 - D.T.W. 3.76 = H2O COLUMN: 16.24 CONV.= 0.12

4" WELL DEPTH: _____ - D.T.W. _____ = H2O COLUMN: _____ CONV.= _____

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL _____

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1104	1	6.85	816	20.6	CLOUDY GREEN-BROWN, PHC ODOR, SANDY
1110	4	6.84	814	20.1	TURBID GREEN-BROWN, PHC ODOR, SHEEN, SANDY
1115	8	6.89	800	20.0	TURBID GREEN-BROWN, PHC ODOR, SHEEN, SANDY

SAMPLING:

SAMPLE ANALYSIS:

TPH-GAS

EPA-8260

SAMPLE TIME:

DID WELL GO DRY?

WATER LEVELS:

NOTES:

TIME RTW

113a | 6.13

**BRUNSWICK ASSOCIATES, INC.
ENVIRONMENTAL DIVISION**

WELL SAMPLING

SHEET 5 OF 7

PROJECT: Groth

PROJECT NUMBER: 691.01

WELL# MW-3 PRECIP. IN LAST 5 DAYS: — WIND ✓

DATE: 4-13-05

STARTING TIME: 0930 FINISHING TIME: 1021

INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 20.00 - D.T.W. 4.35 = H2O COLUMN: 15.65 CONV.= 7.83

4" WELL DEPTH: - D.T.W. = H2O COLUMN: CONV.=

THEREFORE TOTAL PURGE GALLONS EQUALS 2" WELL 8 4" WELL

GALLONS

FIELD MEASUREMENTS

<u>TIME</u>	<u>GALLONS REMOVED</u>	<u>p H</u>	<u>CONDUCTIVITY</u>	<u>TEMP.</u>	<u>OBSERVATIONS</u>
0751	1	6.91	499	18.2	cloudy brown, slight pH odor, sandy
0955	4	6.96	497	18.8	Turq. green - Brown, no odor, silty
1000	8	6.95	480	19.1	Turq. green - Brown, no odor, silty, sandy

SAMPLING:

SAMPLE ANALYSIS:

TPH-GAS

EPA-8260

SAMPLE TIME:

DID WELL GO DRY?

WELL SAMPLING

SHEET 6 OF 7

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA

PROJECT NUMBER: 691

WELL # MW-4 PRECIP. IN LAST 5 DAYS: WIND

DATE: 4-13-05

STARTING TIME: 1135 FINISHING TIME: 1210

INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 0.5 =

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

G
A
L
L
O
N
S

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1146	1	7.10	658	19.5	Cloudy Brown, PH ODDER, SANDY
1149	3	7.00	644	19.8	TURBID Brown, PH ODDER, SANDY
1153	5	6.99	630	19.3	TURBID Brown, NO ODORE, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, pet oxy & Pb scav)

SAMPLE TIME: DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1206	9.07	

WELL SAMPLING

SHEET 7 OF 7

PROJECT: Groth Motors - 505 Santa Rosa Avenue, Santa Rosa, CA

PROJECT NUMBER: 691

WELL # MW-5 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-13-05

STARTING TIME: 1211 FINISHING TIME: 1253 INITIALS:

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 0.5 =

GALLONS

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1217	1	6.68	716	18.9	TURBID GREEN-Brown, NO ODORE, SANDY
1221	3	6.71	734	18.8	TURBID GREEN-Brown, NO ODORE, SANDY
1225	6	6.79	738	18.9	TURBID GREEN-Brown, NO ODORE, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, pet oxy & Pb scav)

SAMPLE TIME: DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1237	7.15	

APPENDIX C

Analytical Laboratory Report





alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

208 Mason St. Ukiah, California 95482

29 April 2005

Brunsing Associates, Inc
Attn: Steve Silva
P.O. Box 588
Windsor, CA 95492
RE: Groth Motors - 505 Santa Rosa Ave
Work Order: A504547

Enclosed are the results of analyses for samples received by the laboratory on 04/20/05 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

208 Mason St. Ukiah, California 95482

• Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Page 1 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number
A504547

Receipt Date/Time
04/20/2005 13:30

Client Code
BRUNS

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A504547-01	Water	04/13/05 10:50	04/20/05 13:30
MW-2	A504547-02	Water	04/13/05 11:27	04/20/05 13:30
MW-3	A504547-03	Water	04/13/05 10:13	04/20/05 13:30
MW-4	A504547-04	Water	04/13/05 12:02	04/20/05 13:30
MW-5	A504547-05	Water	04/13/05 12:31	04/20/05 13:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

208 Mason St. Ukiah, California 95482

Page 2 of 14

CHEMICAL EXAMINATION REPORT

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A504547	04/20/2005 13:30	BRUNS	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-1 (A504547-01)							
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8260GRO	AD52501	04/21/05	04/22/05	1	ND ug/l	50
Surrogate: Toluene-d8	"	"	"	"		118 %	70-129

Volatile Organic Compounds by EPA Method 8260B

Benzene	EPA 8260B	AD52506	"	04/22/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Surrogate: Bromofluorobenzene	"	"	"	"		108 %	45-147
Surrogate: Dibromofluoromethane	"	"	"	"		93.6 %	85-129
Surrogate: Toluene-d8	"	"	"	"		118 %	74-137

MW-2 (A504547-02)

Sample Type: Water

Sampled: 04/13/05 11:27

TPH by EPA/LUFT GC/GCMS Methods

TPH as Gasoline	8260GRO	AD52501	04/21/05	04/22/05	100	28000 ug/l	5000
Surrogate: Toluene-d8	"	"	"	"		123 %	70-129

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

208 Mason St. Ukiah, California 95482

CHEMICAL EXAMINATION REPORT

Page 3 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24

Project No: 691.070

Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number
A504547

Receipt Date/Time
04/20/2005 13:30

Client Code

Client PO/Reference

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-2 (A504547-02)		Sample Type: Water			Sampled: 04/13/05 11:27		
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AD52506	"	04/22/05	100	110 ug/l	30
Toluene	"	"	"	"	"	ND "	30
Ethylbenzene	"	"	"	"	"	1000 "	50
Xylenes (total)	"	"	"	"	"	3400 "	50
Methyl tert-butyl ether	"	"	"	"	"	ND "	50
Di-isopropyl ether	"	"	"	"	"	ND "	50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	50
Tert-amyl methyl ether	"	"	"	"	"	ND "	50
Tert-butyl alcohol	"	"	"	"	"	ND "	1000
1,2-Dichloroethane	"	"	"	"	"	ND "	50
Chlorobenzene	"	"	"	"	"	ND "	50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	50
<i>Surrogate: Bromofluorobenzene</i>	"	"	"	"	"	117 %	45-147
<i>Surrogate: Dibromofluoromethane</i>	"	"	"	"	"	93.2 %	85-129
<i>Surrogate: Toluene-d8</i>	"	"	"	"	"	123 %	74-137

MW-3 (A504547-03)

Sample Type: Water

Sampled: 04/13/05 10:13

TPH by EPA/LUFT GC/GCMS Methods

TPH as Gasoline 8260GRO AD52501 04/21/05 04/22/05 10 **2100 ug/l** **500**
Surrogate: Toluene-d8 " " " " 117 % 70-129

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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Page 4 of 14

CHEMICAL EXAMINATION REPORT

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A504547	04/20/2005 13:30	BRUNS	

Alpha Analytical Laboratories, Inc.							
METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-3 (A504547-03)				Sample Type: Water			
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AD52907	04/27/05	04/27/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Di-isopropyl ether	"	"	"	"	"	ND "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
<i>Surrogate: Bromofluorobenzene</i>	"	"	"	"		109 %	45-147
<i>Surrogate: Dibromoiodomethane</i>	"	"	"	"		98.0 %	85-129
<i>Surrogate: Toluene-d8</i>	"	"	"	"		112 %	74-137

MW-4 (A504547-04)							
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8260GRO	AD52501	04/21/05	04/22/05	1	ND ug/l	50
<i>Surrogate: Toluene-d8</i>	"	"	"	"		119 %	70-129

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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208 Mason St. Ukiah, California 95482

CHEMICAL EXAMINATION REPORT

Page 5 of 14

Brunsing Associates, Inc.
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24

Project No: 691.070

Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number
A504547

Receipt Date/Time
04/20/2005 13:30

Client Code

Client PO/Reference

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-4 (A504547-04)				Sample Type: Water		Sampled: 04/13/05 12:02	
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AD52506	"	04/22/05	1	ND ug/l	0.30
Toluene	"	"	"	"	"	ND "	0.30
Ethylbenzene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Methyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Di-isopropyl ether	"	"	"	"	"	2.4 "	0.50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	0.50
Tert-amyl methyl ether	"	"	"	"	"	ND "	0.50
Tert-butyl alcohol	"	"	"	"	"	ND "	10
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
<i>Surrogate: Bromofluorobenzene</i>	"	"	"	"	"	109 %	45-147
<i>Surrogate: Dibromofluoromethane</i>	"	"	"	"	"	97.6 %	85-129
<i>Surrogate: Toluene-d8</i>	"	"	"	"	"	119 %	74-137

MW-5 (A504547-05)

Sample Type: Water

Sampled: 04/13/05 12:31

TPH by EPA/LUFT GC/GCMS Methods

TPH as Gasoline 8260GRO AD52501 04/21/05 04/22/05 100 **46000 ug/l** **5000**
Surrogate: Toluene-d8 " " " " " 122 % 70-129

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**Nena M. Burgess For Sheri L. Speaks
Project Manager**

4/29/2005



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208 Mason St. Ukiah, California 95482

CHEMICAL EXAMINATION REPORT

Page 6 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24

Project No: 691.070

Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A504547	04/20/2005 13:30	BRUNS	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-5 (A504547-05)					Sampled: 04/13/05 12:31		
Volatile Organic Compounds by EPA Method 8260B							
Benzene	EPA 8260B	AD52506	"	04/22/05	100	1700 ug/l	30
Toluene	"	"	"	"	"	ND "	30
Ethylbenzene	"	"	"	"	"	4600 "	50
Xylenes (total)	"	"	"	"	"	1100 "	50
Methyl tert-butyl ether	"	"	"	"	"	ND "	50
Di-isopropyl ether	"	"	"	"	"	ND "	50
Ethyl tert-butyl ether	"	"	"	"	"	ND "	R-06
Tert-amyl methyl ether	"	"	"	"	"	ND "	R-06
Tert-butyl alcohol	"	"	"	"	"	ND "	1000
1,2-Dichloroethane	"	"	"	"	"	ND "	R-06
Chlorobenzene	"	"	"	"	"	ND "	R-06
1,3-Dichlorobenzene	"	"	"	"	"	ND "	R-06
1,4-Dichlorobenzene	"	"	"	"	"	ND "	R-06
1,2-Dichlorobenzene	"	"	"	"	"	ND "	R-06
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	R-06
<i>Surrogate: Bromofluorobenzene</i>	"	"	"	"	114 %	45-147	
<i>Surrogate: Dibromofluoromethane</i>	"	"	"	"	90.0 %	85-129	
<i>Surrogate: Toluene-d8</i>	"	"	"	"	122 %	74-137	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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CHEMICAL EXAMINATION REPORT

Page 7 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24

Project No: 691.070

Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number
A504547

Receipt Date/Time
04/20/2005 13:30

Client Code
BRUNS

Client PO/Reference

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD52501 - EPA 5030 Water GCMS										
Blank (AD52501-BLK1)										
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	31.7		"	25.0		127	70-129			
LCS (AD52501-BS1)										
TPH as Gasoline	225	50	ug/l	200		112	65-137			
Surrogate: Toluene-d8	30.1		"	25.0		120	70-129			
LCS Dup (AD52501-BSD1)										
TPH as Gasoline	233	50	ug/l	200		116	65-137	3.49	20	
Surrogate: Toluene-d8	29.4		"	25.0		118	70-129			
Matrix Spike (AD52501-MS1)										
TPH as Gasoline	291	50	ug/l	200	ND	138	65-137			QM-05
Surrogate: Toluene-d8	30.1		"	25.0		120	70-129			

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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CHEMICAL EXAMINATION REPORT

Page 8 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number A504547	Receipt Date/Time 04/20/2005 13:30	Client Code BRUNS	Client PO/Reference
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
------------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	------

Batch AD52506 - EPA 5030 Water GCMS

Blank (AD52506-BLK1)		Prepared & Analyzed: 04/21/05						
Benzene	ND	0.30	ug/l					
Toluene	ND	0.30	"					
Ethylbenzene	ND	0.50	"					
Xylenes (total)	ND	0.50	"					
Methyl tert-butyl ether	ND	0.50	"					
Di-isopropyl ether	ND	0.50	"					
Ethyl tert-butyl ether	ND	0.50	"					
Tert-amyl methyl ether	ND	0.50	"					
Tert-butyl alcohol	ND	10	"					
1,2-Dichloroethane	ND	0.50	"					
Chlorobenzene	ND	0.50	"					
1,3-Dichlorobenzene	ND	0.50	"					
1,4-Dichlorobenzene	ND	0.50	"					
1,2-Dichlorobenzene	ND	0.50	"					
1,2-Dibromoethane (EDB)	ND	0.50	"					
<i>Surrogate: Bromofluorobenzene</i>	32.0		"	25.0		128	45-147	
<i>Surrogate: Dibromofluoromethane</i>	26.1		"	25.0		104	85-129	
<i>Surrogate: Toluene-d8</i>	31.7		"	25.0		127	74-137	

LCS (AD52506-BS1)		Prepared & Analyzed: 04/21/05						
Benzene	10.0	0.30	ug/l	10.0		100	79-116	
Toluene	11.4	0.30	"	10.0		114	83-120	
Ethylbenzene	12.1	0.50	"	10.0		121	81-119	QL-03
Xylenes (total)	35.5	0.50	"	30.0		118	79-121	
Methyl tert-butyl ether	12.4	0.50	"	10.0		124	73-127	
Di-isopropyl ether	9.93	0.50	"	10.1		98.3	69-96	QL-03
Ethyl tert-butyl ether	12.0	0.50	"	10.2		118	76-117	QL-03

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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CHEMICAL EXAMINATION REPORT

Page 9 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24

Project No: 691.070

Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number A504547	Receipt Date/Time 04/20/2005 13:30	Client Code BRUNS	Client PO/Reference
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AD52506 - EPA 5030 Water GCMS

LCS (AD52506-BS1)

	Prepared & Analyzed: 04/21/05						
Tert-amyl methyl ether	11.6	0.50	"	10.3	113	80-122	
Tert-butyl alcohol	176	10	"	196	89.8	53-132	
1,2-Dichloroethane	9.21	0.50	"	10.0	92.1	78-115	
Chlorobenzene	10.3	0.50	"	10.0	103	82-112	
1,3-Dichlorobenzene	10.8	0.50	"	10.0	108	82-117	
1,4-Dichlorobenzene	10.0	0.50	"	10.0	100	85-113	
1,2-Dichlorobenzene	10.6	0.50	"	10.0	106	83-113	
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0	107	84-117	
<i>Surrogate: Bromofluorobenzene</i>	28.0		"	25.0	112	45-147	
<i>Surrogate: Dibromofluoromethane</i>	23.6		"	25.0	94.4	85-129	
<i>Surrogate: Toluene-d8</i>	28.3		"	25.0	113	74-137	

LCS Dup (AD52506-BSD1)

	Prepared & Analyzed: 04/21/05						
Benzene	9.05	0.30	ug/l	10.0	90.5	79-116	9.97
Toluene	10.6	0.30	"	10.0	106	83-120	7.27
Ethylbenzene	11.0	0.50	"	10.0	110	81-119	9.52
Xylenes (total)	32.5	0.50	"	30.0	108	79-121	8.82
Methyl tert-butyl ether	11.2	0.50	"	10.0	112	73-127	10.2
Di-isopropyl ether	9.37	0.50	"	10.1	92.8	69-96	5.80
Ethyl tert-butyl ether	11.2	0.50	"	10.2	110	76-117	6.90
Tert-amyl methyl ether	10.9	0.50	"	10.3	106	80-122	6.22
Tert-butyl alcohol	192	10	"	196	98.0	53-132	8.70
1,2-Dichloroethane	8.61	0.50	"	10.0	86.1	78-115	6.73
Chlorobenzene	9.39	0.50	"	10.0	93.9	82-112	9.24
1,3-Dichlorobenzene	9.70	0.50	"	10.0	97.0	82-117	10.7
1,4-Dichlorobenzene	9.51	0.50	"	10.0	95.1	85-113	5.02
1,2-Dichlorobenzene	9.88	0.50	"	10.0	98.8	83-113	7.03

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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Page 10 of 14

CHEMICAL EXAMINATION REPORT

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24

Project No: 691.070

Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number A504547	Receipt Date/Time 04/20/2005 13:30	Client Code BRUNS	Client PO/Reference
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD52506 - EPA 5030 Water GCMS										
LCS Dup (AD52506-BSD1)										
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0		102	84-117	4.78	25	
Surrogate: Bromofluorobenzene	25.9		"	25.0		104	45-147			
Surrogate: Dibromofluoromethane	21.4		"	25.0		85.6	85-129			
Surrogate: Toluene-d8	26.5		"	25.0		106	74-137			
Matrix Spike (AD52506-MS1)										
Benzene	5.91	0.30	ug/l	10.0	ND	59.1	63-144			QM-05
Toluene	6.98	0.30	"	10.0	ND	69.8	65-145			
Ethylbenzene	7.10	0.50	"	10.0	ND	71.0	57-155			
Xylenes (total)	20.9	0.50	"	30.0	ND	69.7	59-149			
Methyl tert-butyl ether	7.96	0.50	"	10.0	1.2	67.6	62-156			
Di-isopropyl ether	6.50	0.50	"	10.1	ND	64.4	58-115			
Ethyl tert-butyl ether	7.28	0.50	"	10.2	ND	71.4	57-147			
Tert-amyl methyl ether	6.79	0.50	"	10.3	ND	65.9	53-153			
Tert-butyl alcohol	112	10	"	196	ND	57.1	41-147			
1,2-Dichloroethane	5.42	0.50	"	10.0	ND	54.2	61-134			QM-05
Chlorobenzene	6.10	0.50	"	10.0	ND	61.0	62-139			QM-05
1,3-Dichlorobenzene	6.23	0.50	"	10.0	ND	62.3	59-140			
1,4-Dichlorobenzene	6.09	0.50	"	10.0	ND	60.9	62-136			QM-05
1,2-Dichlorobenzene	6.22	0.50	"	10.0	ND	62.2	62-137			
1,2-Dibromoethane (EDB)	6.21	0.50	"	10.0	ND	62.1	58-140			
Surrogate: Bromofluorobenzene	26.6		"	25.0		106	45-147			
Surrogate: Dibromofluoromethane	21.6		"	25.0		86.4	85-129			
Surrogate: Toluene-d8	27.1		"	25.0		108	74-137			

Batch AD52907 - EPA 5030 Water GCMS

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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Page 11 of 14

CHEMICAL EXAMINATION REPORT

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number A504547	Receipt Date/Time 04/20/2005 13:30	Client Code BRUNS	Client PO/Reference
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD52907 - EPA 5030 Water GCMS										
Blank (AD52907-BLK1) Prepared & Analyzed: 04/27/05										
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
<i>Surrogate: Bromofluorobenzene</i>	27.6		"	25.0		110	45-147			
<i>Surrogate: Dibromofluoromethane</i>	28.5		"	25.0		114	85-129			
<i>Surrogate: Toluene-d8</i>	31.4		"	25.0		126	74-137			
LCS (AD52907-BS1) Prepared & Analyzed: 04/27/05										
Benzene	10.3	0.30	ug/l	10.0		103	79-116			
Toluene	11.2	0.30	"	10.0		112	83-120			
Ethylbenzene	11.4	0.50	"	10.0		114	81-119			
Xylenes (total)	31.9	0.50	"	30.0		106	79-121			
Methyl tert-butyl ether	10.7	0.50	"	10.0		107	73-127			
Di-isopropyl ether	9.66	0.50	"	10.1		95.6	69-96			
Ethyl tert-butyl ether	9.13	0.50	"	10.2		89.5	76-117			

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Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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CHEMICAL EXAMINATION REPORT

Page 12 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number A504547	Receipt Date/Time 04/20/2005 13:30	Client Code BRUNS	Client PO/Reference
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AD52907 - EPA 5030 Water GCMS

LCS (AD52907-BS1)								Prepared & Analyzed: 04/27/05		
Tert-amyl methyl ether	9.27	0.50	"	10.3	90.0	80-122				
Tert-butyl alcohol	216	10	"	196	110	53-132				
1,2-Dichloroethane	9.49	0.50	"	10.0	94.9	78-115				
Chlorobenzene	10.3	0.50	"	10.0	103	82-112				
1,3-Dichlorobenzene	10.8	0.50	"	10.0	108	82-117				
1,4-Dichlorobenzene	10.5	0.50	"	10.0	105	85-113				
1,2-Dichlorobenzene	10.7	0.50	"	10.0	107	83-113				
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0	105	84-117				
<i>Surrogate: Bromofluorobenzene</i>	26.4		"	25.0	106	45-147				
<i>Surrogate: Dibromofluoromethane</i>	24.3		"	25.0	97.2	85-129				
<i>Surrogate: Toluene-d8</i>	26.9		"	25.0	108	74-137				

LCS Dup (AD52907-BSD1)								Prepared & Analyzed: 04/27/05		
Benzene	10.0	0.30	ug/l	10.0	100	79-116	2.96	25		
Toluene	10.9	0.30	"	10.0	109	83-120	2.71	25		
Ethylbenzene	11.0	0.50	"	10.0	110	81-119	3.57	25		
Xylenes (total)	30.5	0.50	"	30.0	102	79-121	4.49	25		
Methyl tert-butyl ether	11.0	0.50	"	10.0	110	73-127	2.76	25		
Di-isopropyl ether	9.77	0.50	"	10.1	96.7	69-96	1.13	25	QL-03	
Ethyl tert-butyl ether	9.31	0.50	"	10.2	91.3	76-117	1.95	25		
Tert-amyl methyl ether	9.34	0.50	"	10.3	90.7	80-122	0.752	25		
Tert-butyl alcohol	246	10	"	196	126	53-132	13.0	25		
1,2-Dichloroethane	9.00	0.50	"	10.0	90.0	78-115	5.30	25		
Chlorobenzene	10.0	0.50	"	10.0	100	82-112	2.96	25		
1,3-Dichlorobenzene	10.4	0.50	"	10.0	104	82-117	3.77	25		
1,4-Dichlorobenzene	10.4	0.50	"	10.0	104	85-113	0.957	25		
1,2-Dichlorobenzene	10.5	0.50	"	10.0	105	83-113	1.89	25		

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Project Manager

4/29/2005



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CHEMICAL EXAMINATION REPORT

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Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number A504547	Receipt Date/Time 04/20/2005 13:30	Client Code BRUNS	Client PO/Reference
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD52907 - EPA 5030 Water GCMS										
LCS Dup (AD52907-BSD1)										
Prepared & Analyzed: 04/27/05										
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0	108	84-117	2.82	25		
Surrogate: Bromofluorobenzene	25.8		"	25.0	103	45-147				
Surrogate: Dibromofluoromethane	23.8		"	25.0	95.2	85-129				
Surrogate: Toluene-d8	26.6		"	25.0	106	74-137				
Matrix Spike (AD52907-MS1)										
Source: A504550-01 Prepared & Analyzed: 04/27/05										
Benzene	9.86	0.30	ug/l	10.0	ND	98.6	63-144			
Toluene	10.2	0.30	"	10.0	ND	102	65-145			
Ethylbenzene	9.91	0.50	"	10.0	ND	99.1	57-155			
Xylenes (total)	28.0	0.50	"	30.0	ND	93.3	59-149			
Methyl tert-butyl ether	13.7	0.50	"	10.0	1.8	119	62-156			
Di-isopropyl ether	10.1	0.50	"	10.1	ND	100	58-115			
Ethyl tert-butyl ether	9.82	0.50	"	10.2	ND	96.3	57-147			
Tert-amyl methyl ether	9.93	0.50	"	10.3	ND	96.4	53-153			
Tert-butyl alcohol	276	10	"	196	ND	141	41-147			
1,2-Dichloroethane	9.69	0.50	"	10.0	ND	96.9	61-134			
Chlorobenzene	9.85	0.50	"	10.0	ND	98.5	62-139			
1,3-Dichlorobenzene	9.42	0.50	"	10.0	ND	94.2	59-140			
1,4-Dichlorobenzene	9.62	0.50	"	10.0	ND	96.2	62-136			
1,2-Dichlorobenzene	10.2	0.50	"	10.0	ND	102	62-137			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0	ND	109	58-140			
Surrogate: Bromofluorobenzene	25.6		"	25.0	102	45-147				
Surrogate: Dibromofluoromethane	24.2		"	25.0	96.8	85-129				
Surrogate: Toluene-d8	26.4		"	25.0	106	74-137				

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

4/29/2005



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208 Mason St. Ukiah, California 95482

CHEMICAL EXAMINATION REPORT

Page 14 of 14

Brunsing Associates, Inc
P.O. Box 588
Windsor, CA 95492
Attn: Steve Silva

Report Date: 04/29/05 11:24
Project No: 691.070
Project ID: Groth Motors - 505 Santa Rosa Ave

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A504547	04/20/2005 13:30	BRUNS	

Notes and Definitions

- R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

Chain-of-Custody Form

APPENDIX D

Clearwater Group Environmental Services Data



Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA

421 Santa Rosa Avenue

Santa Rosa, California

Clearwater Group Project No. AB021C

Well-No.	Date	TOC (feet)	DTW (feet)	GWE (feet)	LNAPL (feet)	O&G (μg/L)	TPHm (μg/L)	TPHd (μg/L)	Benzene (μg/L)	T (μg/L)	E (μg/L)	X (μg/L)	MTBE (μg/L)	DPE, TAME (μg/L)	1,2-DCA (μg/L)	EDB (μg/L)
MW-1																
MW-1	12/26/1991	159.42	13.70	145.76	0.05	170,000	<200	82,000 ^a	67,000	21,000	2,300	17,000	--	--	47	
	3/28/1992	159.42	6.42	153.04	0.05	90,000	<200	3,000	120,000	35,000	27,000	1,200	--	--	--	
6/16/1992	159.42	10.02	149.42	0.03	<5,000	<200	62,000	15,000	8,100	1,800	8,300	--	--	52		
9/19/1992	159.42	13.16	146.36	0.13	<5,000	<200	11,000 ^a	390,000	27,000	19,000	3,600	18,000	--	<0.4		
12/13/1992	159.42	--	--	0.25	<5,000	<200	3,600 ^a	49,000	18,000	13,000	790	10,000	--	39		
9/7/1994	159.42	--	--	0.06	<5,000	<200	61,000 ^a	180,000	23,000	13,000	390	18,000	--	<0.4		
5/16/2000	Destroyed and replaced by MW-1A in adjacent borehole.															
MW-1A	5/18/2000	160.00	5.71	154.29	0.00	--	--	--	86,000	17,000	9,800	4,100	19,000	<250	--	
	12/11/2000	160.00	10.30	149.70	0.00	--	--	--	61,000	7,900	2,900	3,400	14,000	<250 ^f	--	
3/1/2001	159.30	5.36	153.94	0.00	--	--	--	71,000	6,100	2,100	3,200	13,000	<20	<20		
5/29/2001	159.30	8.69	150.61	0.00	--	--	--	79,000	8,200	3,000	3,300	13,000	<25	--		
7/20/2001	159.30	10.39	148.91	0.00	--	--	--	62,000	7,100	1,900	3,100	13,000	<25	--		
10/17/2001	159.30	11.70	147.60	0.00	--	--	--	70,000	7,800	1,500	3,800	12,000	<25	--		
1/11/2002	159.30	5.94	153.36	0.00	--	--	--	61,000	5,400	1,200	2,600	8,700	<20	--		
4/26/2002	159.30	7.21	152.09	0.00	--	--	--	61,000	4,900	1,400	3,100	11,000	<20	--		
7/3/2002	159.30	9.91	149.39	0.00	--	--	--	64,000	6,000	1,300	3,000	11,000	<10	--		
10/30/2002	159.30	11.16	148.14	0.00	--	--	--	59,000	5,200	420	3,400	5,200	<20	<20		
1/8/2003	159.30	5.32	153.98	0.00	--	--	--	39,000	2,600	600	2,100	6,600	2	--		
4/9/2003	159.30	6.40	152.90	0.00	--	--	--	48,000	2,500	700	2,300	6,400	<1.5	--		
7/9/2003	159.30	7.36	151.94	sheen	--	--	--	40,000	1,600	420	2,500	6,800	<1.0	<1.0		
10/9/2003	159.30	11.22	148.08	sheen	--	--	--	37,000	2,100	250	2,700	3,600	<0.50	--		
1/8/2004	159.30	5.00	154.30	sheen	--	--	--	42,000	1,900	410	2,200	5,600	<0.5	<0.5		
4/9/2004	159.30	6.62	152.68	0.00	--	--	--	29,000	1,200	280	1,600	4,200	<20	--		
6/24/2004	159.30	10.05	149.25	0.00	--	--	--	44,000	1,200	210	2,200	3,600	<1.5	--		
9/7/2004	159.30	12.77	146.53	0.00	--	--	--	26,000	1,300	130	1,800	2,400	0.76	<0.5		
1/13/2005	159.30	4.96	154.34	0.00	--	--	--	28,000	820	110	1,900	2,600	<1.0	<1.0		
4/13/2005	159.30	5.73	153.57	0.00	--	--	--	23,000	380	70	1,300	2,200	<1.0	--		
5/16/2000	Destroyed and replaced by MW-2A in adjacent borehole.															
MW-2	12/26/1991	159.56	12.92	146.64	0.00	--	--	--	910	200	1.0	<0.50	32	--	--	
	3/28/1992	159.56	5.28	154.28	0.00	--	--	--	38,000	6,500	350	1,500	1,800	--	--	
6/16/1992	159.56	9.05	150.51	0.00	--	--	--	15,000	3,000	250	1,300	1,300	--	--		
9/19/1992	159.56	12.21	147.35	0.00	--	--	--	8,700	1,100	34	340	140	--	--		
12/13/1992	159.56	--	--	0.00	--	--	--	4,500	1,400	190	490	750	--	--		
9/7/1994	159.56	--	--	0.00	<5,000	<200	1,100 ^a	3,200	560	9.4	120	23	--	<0.40		
5/16/2000	Destroyed and replaced by MW-2A in adjacent borehole.															
MW-2A	5/18/2000	159.54	6.17	153.37	0.00	--	--	--	4,200	86	<5.0	300	<50†	--	--	
	12/11/2000	159.54	11.14	148.40	0.00	--	--	--	2,700	110	11	94	<100†	--	--	
3/1/2001	158.83	5.54	153.29	0.00	--	--	--	2,800	47	0.58	96	46	<0.50 to <5.0	<0.50		
5/29/2001	158.83	8.91	149.92	0.00	--	--	--	6,500	100	1.3	400	100	<0.50	--		
7/20/2001	158.83	10.61	148.22	0.00	--	--	--	9,100	190	3.0	800	320	<2.5	--		
10/17/2001	158.83	12.59	146.24	0.00	--	--	--	4,000	26	0.6	84	8	<0.50	--		
1/11/2002	158.83	4.51	154.32	0.00	--	--	--	100	9.6	<0.50	<0.50	<0.50	--	--		
4/26/2002	158.83	9.21	149.62	0.00	--	--	--	7,100	160	2.3	1,000	85	<0.50	--		

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
421 Santa Rosa Avenue
Santa Rosa, California

Well-No.	Date	TOC	DTW	GWE	LNAPL	O&G	TPH _{Mo}	TPH _d	Benzene	T	E	X	MTBE	DIPE, TAME	1,2-DCA	EDB
		(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-2A																
7/30/2002	158.83	10.25	148.58	0.00	-	-	-	-	6.400	98	1.1	570	63	<0.50	-	-
10/30/2002	158.83	12.31	146.52	0.00	-	-	-	-	2,700	46	<0.50	180	4.5	<0.50	-	-
1/8/2003	158.83	5.04	153.79	0.00	-	-	-	-	5,000	240	<2.0	430	14.0	<2.0	-	-
4/9/2003	158.83	6.40	152.43	0.00	-	-	-	-	8,400	170	<2.0	600	33	<2.0	-	-
7/9/2003	158.83	8.48	150.35	0.00	-	-	-	-	8,400	150	<2.5	680	33	<2.5	-	-
10/9/2003	158.83	11.66	147.17	sheen	-	-	-	-	4,500	95	0.82	250	8.1	<0.50	-	-
1/8/2004	158.83	5.30	153.53	sheen	-	-	-	-	3,400	52	0.76	180	3.1	<0.50	-	-
4/9/2004	158.83	6.63	152.20	0.00	-	-	-	-	3,600	49	0.64	210	4.4	<0.50	-	-
6/24/2004	158.83	No Data - Vehicle	Obstructed Access to Well		-	-	-	-	No Data - Vehicle	Obstructed Access to Well		-	-	-	-	-
9/16/2004	158.83	13.17	145.66	0.00	-	-	-	-	2,000	56	4.70	48	19.0	<0.50	ND	-
1/13/2005	158.83	4.98	153.85	0.00	-	-	-	-	3,000	86	<0.50	190	1.7	<0.50	-	-
4/13/2005	158.83	5.21	153.62	0.00	-	-	-	-	4,700	84	1.0	210	2.5	<0.50	-	-
MW-3																
12/26/1991	159.37	14.32	145.05	0.00	<5,000	<200	<50	<50	3.3	<0.50	<0.50	70	-	-	1.9	-
3/28/1992	159.37	6.94	152.43	0.00	<5,000	<200	<50	<50	<0.50	<0.50	<0.50	40	-	<0.40	-	-
6/16/1992	159.37	10.82	148.55	0.00	<5,000	<200	160 ^a	320	270	1.2	9.7	13	-	-	1.1	-
9/19/1992	159.37	13.56	145.81	0.00	<5,000	<200	<50	1,100	1.9	<0.50	<0.50	4.4	12	-	2.6	-
12/13/1992	159.37	--	--	0.00	<5,000	<200	150 ^a	140	43	<0.50	<0.50	4.4	12	-	<0.40	-
9/7/1994	159.37	--	--	0.00	<5,000	<200	110 ^a	<50	<0.50	<0.50	<0.50	4.4	12	-	<0.40	-
5/16/2000	Well could not be located following construction activities, assumed to be buried.															
MW-4																
5/18/2000	157.63	4.50	153.13	0.00	-	-	-	-	36,000	4,600	1,100	1,800	500†	-	-	-
12/11/2000	157.63	9.08	148.55	0.00	-	-	-	-	17,000	3,500	280	600	1,600	<250†	-	-
3/1/2001	156.91	3.24	153.67	0.00	-	-	-	-	19,000	2,400	370	640	2,100	<10	DIME = 12	<10
5/29/2001	156.91	6.92	149.99	0.00	-	-	-	-	29,000	3,800	450	770	2,400	<20	-	-
7/20/2001	156.91	8.79	148.12	0.00	-	-	-	-	13,000	3,000	88	230	300	1.9	-	-
10/17/2001	156.91	10.56	146.35	0.00	-	-	-	-	13,000	3,300	68	280	240	<20	-	-
1/11/2002	156.91	5.05	151.86	0.00	-	-	-	-	6,500	540	59	170	450	<20	-	-
4/26/2002	156.91	5.03	151.88	0.00	-	-	-	-	14,000	1,400	200	450	1,000	0.95	-	-
7/30/2002	156.91	8.26	148.65	0.00	-	-	-	-	16,000	2,800	180	390	1,100	1.1	-	-
10/30/2002	156.91	10.17	146.74	0.00	-	-	-	-	12,000	2,700	45	150	87	<10	-	-
1/8/2003	156.91	3.43	153.48	0.00	-	-	-	-	3,900	570	47	120	240	<2.5	-	-
4/9/2003	156.91	4.30	152.61	0.00	-	-	-	-	12,000	1,100	95	290	460	<5.0	-	-
7/9/2003	156.91	6.47	150.44	sheen	-	-	-	-	14,000	1,600	93	290	460	<10	-	-
10/9/2003	156.91	9.59	147.32	0.00	-	-	-	-	12,000	2,300	49	180	170	<5.0	-	-
1/8/2004	156.91	6.35	150.56	sheen	-	-	-	-	4,400	570	39	120	210	<3.0	-	-
4/9/2004	156.91	5.06	151.85	0.00	-	-	-	-	11,000	1,700	97	270	500	<2.5	-	-
6/24/2004	156.91	7.75	149.16	0.00	-	-	-	-	8,500	1,500	52	160	220	<5.0	-	-
9/16/2004	156.91	11.04	145.87	0.00	-	-	-	-	8,500	1,700	28	79	88	<5.0	ND	-
1/13/2005	156.91	2.99	153.92	0.00	-	-	-	-	2,900	330	17	60	88	1.4	-	-
4/13/2005	156.91	3.67	153.24	0.00	-	-	-	-	4,100	680	34	85	71	1.3	-	-
MW-5																
5/18/2000	158.13	4.01	154.12	0.00	-	-	-	-	18,000	90	220	700	3,100	<250†	-	-
12/11/2000	158.13	7.86	150.27	0.00	-	-	-	-	5,200	99	46	200	650	<100†	-	..
3/1/2001	157.42	3.31	154.11	0.00	-	-	-	-	17,000	20	110	530	2,100	<10	<3.0	<3.0
5/29/2001	157.42	6.81	150.61	0.00	-	-	-	-	5,900	70	23	100	330	<0.50	-	-
7/20/2001	157.42	8.67	148.75	0.00	-	-	-	-	5,500	93	13	90	310	<1.0	-	-
10/17/2001	157.42	10.39	147.03	0.00	-	-	-	-	5,200	130	46	40	69	1.6	-	-
1/11/2002	157.42	4.13	153.29	0.00	-	-	-	-	8,300	4.8	27	170	580	<2.0	-	-
4/26/2002	157.42	4.93	152.49	0.00	-	-	-	-	6,500	16	29	160	530	<2.0	-	-
7/30/2002	157.42	8.13	149.29	0.00	-	-	-	-	4,300	38	10	120	250	<1.0	-	-

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
421 Santa Rosa Avenue
Santa Rosa, California
Clearwater Group Project No. AB021C

Well-No.	Date	TOC (feet)	DTW (feet)	GWE (feet)	LNAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	X (µg/L)	ETBE, TBA, DPE (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)
MW-5	10/30/2002	157.42	10,04	147.38	0.00	--	--	--	3,800	130	8.4	60	80	0.81	--	--	--	
	1/8/2003	157.42	3.36	154.06	0.00	--	--	--	6,000	9.8	24.0	130	410	<1.0	--	--	--	
	4/9/2003	157.42	4.35	153.07	0.00	--	--	--	12,000	<5.0	24	310	1,000	<5.0	--	--	--	
	7/9/2003	157.42	6.43	150.99	0.00	--	--	--	3,200	31	5.9	35	50	<0.50	--	--	--	
	10/9/2003	157.42	9.60	147.82	0.00	--	--	--	3,100	40	4.6	22	36	0.90	--	--	--	
	1/8/2004	157.42	6.20	151.22	0.00	--	--	--	4,600	4	12.0	100	270	0.51	--	--	--	
	4/9/2004	157.42	4.98	152.44	0.00	--	--	--	3,700	8.2	5.3	22	34	0.53	--	--	--	
	6/24/2004	157.42	7.85	149.57	0.00	--	--	--	3,900	14.0	4.2	44	85	0.86	--	--	--	
	9/16/2004	157.42	11.01	146.41	0.00	--	--	--	2,300	19.0	2.4	8	12	0.97	ND	--	--	
	1/13/2005	157.42	3.16	154.26	0.00	--	--	--	2,400	0.5	2.8	32	68	<0.50	--	--	--	
	4/13/2005	157.42	3.74	153.68	0.00	--	--	--	3,500	0.95	2.0	51	100	<0.50	--	--	--	
MW-6	5/18/2000	159.65	6.00	153.65	0.00	--	--	--	330	4.2	<0.50	12	3.2	<5.0†	--	--	--	
	12/11/2000	159.65	10.14	149.51	0.00	--	--	--	130*	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	3/1/2001	158.95	5.77	153.18	0.00	--	--	--	200	<0.50	<0.50	5.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	5/29/2001	158.95	8.46	150.49	0.00	--	--	--	120	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/20/2001	158.95	10.27	148.68	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/17/2001	158.95	11.78	147.17	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	1/11/2002	158.95	5.48	153.47	0.00	--	--	--	410	<0.50	<0.50	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/26/2002	158.95	9.74	149.21	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/30/2002	158.95	9.60	149.35	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	10/30/2002	158.95	11.55	147.40	0.00	--	--	--	260	<0.50	<0.50	5.8	<0.50	<0.50	<0.50	<0.50	<0.50	
	1/8/2003	158.95	4.97	153.98	0.00	--	--	--	87	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/9/2003	158.95	6.05	152.90	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	7/9/2003	158.95	8.02	150.93	0.00	--	--	--	360	17	<0.50	5.4	<0.50	0.55	--	--	--	
	10/9/2003	158.95	10.89	148.06	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	1/8/2004	158.95	4.50	154.45	0.80	--	--	--	140	<0.50	<0.50	0.82	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/9/2004	158.95	6.42	152.53	0.00	--	--	--	53	<0.50	<0.50	1.00	<0.50	<0.50	<0.50	<0.50	<0.50	
	6/24/2004	158.95	9.33	149.62	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/16/2004	158.95	12.28	146.67	0.00	--	--	--	<50	<0.50	<0.50	0.67	0.68	1.30	<0.50	ND	--	
	1/13/2005	158.95	4.32	154.63	0.00	--	--	--	180	<0.50	<0.50	2.90	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/13/2005	158.95	5.36	153.59	0.00	--	--	--	74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	5/18/2000	160.28	8.82	151.46	0.00	--	--	--	430	1.5	17	21	<5.0†	--	--	--	--	
	12/11/2000	160.28	13.32	146.96	0.00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/1/2001	159.58	7.57	152.01	0.00	--	--	--	840	<1.0	<1.0	<1.0	<1.0	<1.0	6.8	TBA = 20	<1.0	
	5/29/2001	159.58	11.11	148.47	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	
	7/20/2001	159.58	12.72	146.86	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	--	--	
	10/17/2001	159.58	14.38	145.20	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	--	--	
	1/11/2002	159.58	7.50	152.08	0.00	--	--	--	140	57	<0.50	<0.50	<0.50	<0.50	5.9	--	--	
	4/26/2002	159.58	9.67	149.91	0.00	--	--	--	140	16	<0.50	<0.50	<0.50	<0.50	3.2	<0.50	2.3	
	7/30/2002	159.58	12.24	147.34	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	
	10/30/2002	159.58	14.17	145.41	0.00	--	--	--	61	18	<0.50	<0.50	<0.50	<0.50	1.6	--	--	
	1/8/2003	159.58	7.26	152.32	0.00	--	--	--	510	110	<0.50	3.8	5.5	4.3	--	--	--	
	4/9/2003	159.58	8.85	150.73	0.00	--	--	--	170	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	--	--	
	7/9/2003	159.58	10.77	148.81	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	--	--	
	10/9/2003	159.58	13.50	146.08	0.00	--	--	--	62	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	--	--	
	1/8/2004	159.58	7.36	152.22	0.00	--	--	--	190	62	<0.50	<0.50	<0.50	<0.50	7.0	--	--	
	4/9/2004	159.58	Not Monitored due to vehicle obstructing well access.			--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.30	--	--	
	6/24/2004	159.58	11.91	147.67	0.00	--	--	--	53	<0.50	<0.50	<0.50	<0.50	<0.50	2.20	2.80	ND	
	9/16/2004	159.58	14.97	144.61	0.00	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
 421 Santa Rosa Avenue
 Santa Rosa, California

Well-No.	Date	TOC (feet)	DTW (feet)	GWE (feet)	LNAPL (feet)	O&G (µg/L)	TPH _{Mo} (µg/L)	TPH _d (µg/L)	Benzene (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	ETBE, TBA, DPE, TAME	
MW-7	1/13/2005	159.58	6.68	152.90	0.00	-	-	-	-	<50	<50	<50	<50	<50	1.7	-	-	
MW-8	4/13/2005	159.58	7.74	151.84	0.00	-	-	-	-	<50	<50	<50	<50	<50	1.7	-	-	
MW-8	12/11/2000	159.98	13.11	146.87	0.00	-	-	-	-	<50	<50	<50	<50	<50	<50†	<50	<0.50	
MW-8	3/1/2001	159.29	7.06	152.23	0.00	-	-	-	-	<50	<50	<50	<50	<50	2.1	<0.50 to >5.0	<0.50	
MW-8	5/29/2001	159.29	10.88	148.41	0.00	-	-	-	-	<50	<50	<50	<50	<50	1.6	-	-	
MW-8	7/20/2001	159.29	12.43	146.86	0.00	-	-	-	-	<50	<50	<50	<50	<50	1.7	-	-	
MW-8	10/17/2001	159.29	13.47	145.82	0.00	-	-	-	-	<50	<50	<50	<50	<50	2.1	-	-	
MW-8	1/11/2002	159.29	7.04	152.25	0.00	-	-	-	-	<50	<50	<50	<50	<50	1.9	-	-	
MW-8	4/26/2002	159.29	8.59	150.70	0.00	-	-	-	-	<50	<50	<50	<50	<50	2.9	-	-	
MW-8	7/30/2002	159.29	11.95	147.34	0.00	-	-	-	-	<50	<50	<50	<50	<50	3.2	-	-	
MW-8	10/30/2002	159.29	13.91	145.38	0.00	-	-	-	-	<50	<50	<50	<50	<50	2.7	-	-	
MW-8	1/8/2003	159.29	7.14	152.15	0.00	-	-	-	-	<50	<50	<50	<50	<50	3.5	-	-	
MW-8	4/9/2003	159.29	8.67	150.62	0.00	-	-	-	-	<50	<50	<50	<50	<50	5.1	-	-	
MW-8	7/9/2003	159.29	10.54	148.75	0.00	-	-	-	-	<50	<50	<50	<50	<50	4.1	-	-	
MW-8	10/9/2003	159.29	13.25	146.04	0.00	-	-	-	-	<50	<50	<50	<50	<50	3.1	-	-	
MW-8	1/8/2004	159.29	7.80	151.49	0.00	-	-	-	-	<50	<50	<50	<50	<50	6.0	-	-	
MW-8	4/9/2004	159.29	9.03	150.26	0.00	-	-	-	-	<50	<50	<50	<50	<50	5.7	-	-	
MW-8	6/24/2004	159.29	11.72	147.57	0.00	-	-	-	-	<50	<50	<50	<50	<50	4.6	-	-	
MW-8	9/16/2004	159.29	14.69	144.60	0.00	-	-	-	-	52	2.0	2.4	2.0	6.5	5.1	-	-	
MW-8	1/13/2005	159.29	6.59	152.70	0.00	-	-	-	-	<50	<50	<50	<50	<50	2.2	-	-	
MW-8	4/13/2005	159.29	7.13	152.16	0.00	-	-	-	-	<50	<50	<50	<50	<50	6	-	-	
MW-9	12/11/2000	159.39	12.61	146.78	0.00	-	-	-	-	<50	<50	<50	<50	<50	<50†	<5.0	<0.50	
MW-9	3/1/2001	158.69	6.94	151.75	0.00	-	-	-	-	<50	<50	<50	<50	<50	2.0	TBA = 5.1	-	
MW-9	5/29/2001	158.69	10.40	148.29	0.00	-	-	-	-	<50	<50	<50	<50	<50	3.5	-	-	
MW-9	7/20/2001	158.69	11.98	146.71	0.00	-	-	-	-	<50	<50	<50	<50	<50	1.6	-	-	
MW-9	10/17/2001	158.69	13.61	145.08	0.00	-	-	-	-	<50	<50	<50	<50	<50	4.9	-	-	
MW-9	1/11/2002	158.69	7.02	151.67	0.00	-	-	-	-	<50	<50	<50	<50	<50	41	-	-	
MW-9	4/26/2002	158.69	9.04	149.65	0.00	-	-	-	-	<50	<50	<50	<50	<50	18	-	-	
MW-9	7/30/2002	158.69	11.48	147.21	0.00	-	-	-	-	<50	<50	<50	<50	<50	9.9	-	-	
MW-9	10/30/2002	158.69	13.38	145.31	0.00	-	-	-	-	<50	<50	<50	<50	<50	12	-	-	
MW-9	1/8/2003	158.69	6.94	151.75	0.00	-	-	-	-	<50	<50	<50	<50	<50	44	-	-	
MW-9	4/9/2003	158.69	8.25	150.44	0.00	-	-	-	-	<50	<50	<50	<50	<50	15	-	-	
MW-9	7/9/2003	158.69	10.09	148.60	0.00	-	-	-	-	<50	<50	<50	<50	<50	18	-	-	
MW-9	10/9/2003	158.69	12.74	145.95	0.00	-	-	-	-	<50	<50	<50	<50	<50	12	-	-	
MW-9	1/8/2004	158.69	6.70	151.99	0.00	-	-	-	-	<50	<50	<50	<50	<50	26	-	-	
MW-9	4/9/2004	158.69	8.55	150.14	0.00	-	-	-	-	<50	<50	<50	<50	<50	7	-	-	
MW-9	6/24/2004	158.69	11.18	147.51	0.00	-	-	-	-	<50	<50	<50	<50	<50	12	-	-	
MW-9	9/16/2004	158.69	14.17	144.52	0.00	-	-	-	-	150	4.3	6.9	23	8.6	ND	-	-	
MW-9	1/13/2005	158.69	6.16	152.53	0.00	-	-	-	-	<50	<50	<50	<50	<50	20.0	-	-	
MW-9	4/13/2005	158.69	7.59	151.10	0.00	-	-	-	-	<50	<50	<50	<50	<50	13	-	-	
SB-14-H20	9/9/1994	--	--	--	--	--	--	--	--	1,800	580	71	120	350	--	--	--	
SB-15-H20	9/9/1994	--	--	--	--	--	--	--	--	950	240	160	48	220	--	--	--	
SB-16-H20	9/9/1994	--	--	--	--	--	--	--	--	1,400	250	34	120	420	--	--	--	
SB-18-H20	9/9/1994	--	--	--	--	--	--	--	--	18	<0.50	<0.50	<0.50	<0.50	2.4	--	--	
SB-19-H20	9/8/1994	--	--	--	--	--	--	--	--	36	<0.50	<0.50	<0.50	<0.50	7.7	--	--	
SB-24-H20	9/8/1994	--	--	--	--	--	--	--	--	22	<0.50	<0.50	<0.50	<0.50	1.8	<0.50	2.0	
SB-26-H20	9/8/1994	--	--	--	--	--	--	--	--	12,000	9,800 ^a	1,600	380	2,100	0.7	--	--	

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA

Well-No.	Date	TOC (feet)	DTW (feet)	GWE (feet)	LNAPL (feet)	O&G (feet)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETBE, TAME (µg/L)	MTBE, TAME, DPE, TAME (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)
Notes:																		
Well No.																		
Date																		
TOC																		
DTW																		
GWE																		
LNAPL																		
O&G																		
TPHmo																		
TPHd																		
TPHg																		
BTEX																		
Notes:																		
MTBE																		
ETBE, TBA, DPE, TAME																		
1,2 DCA																		
EDB																		
µg/L																		
—																		
<###																		
^																		
*																		
†																		
Sample collection date																		
Elevation at the top of the well casing referenced to City of Santa Rosa bench mark C-41, relative to MSL as of 3/1/01																		
Ground water elevation																		
Light Non-Aqueous Phase Liquid hydrocarbons present, sheen = <0.01-foot thick																		
Oil Grease using DHOS Method 553																		
Total Petroleum Hydrocarbons as Motor Oil by EPA Method 8015M																		
Total Petroleum Hydrocarbons as Diesel by EPA Method 8015M																		
Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015M or 8260B																		
Benzene, Toluene, Ethylbenzene, and total Xylenes by EPA Method 8020 or 8260B																		
Methyl tert-Butyl Ether by EPA Method 8260B																		
Fuel Oxygenates by EPA Method 8260B																		
1,2-Dichloroethane by EPA Method 8260B																		
1,2-Dibromoethane by EPA Method 8260B																		
micograms per liter (approximately equal to parts per billion)																		
Not tested, not measured																		
Not detected in concentrations exceeding the indicated laboratory reporting limit																		
Laboratory reports lighter than diesel range hydrocarbons present in sample (from GPI reports)																		
Laboratory report indicates chromatogram atypical of gasoline																		
MTBE by EPA Method 8020																		